

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P532380

Luminaire Tested: **GLAN-SA7D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39337 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

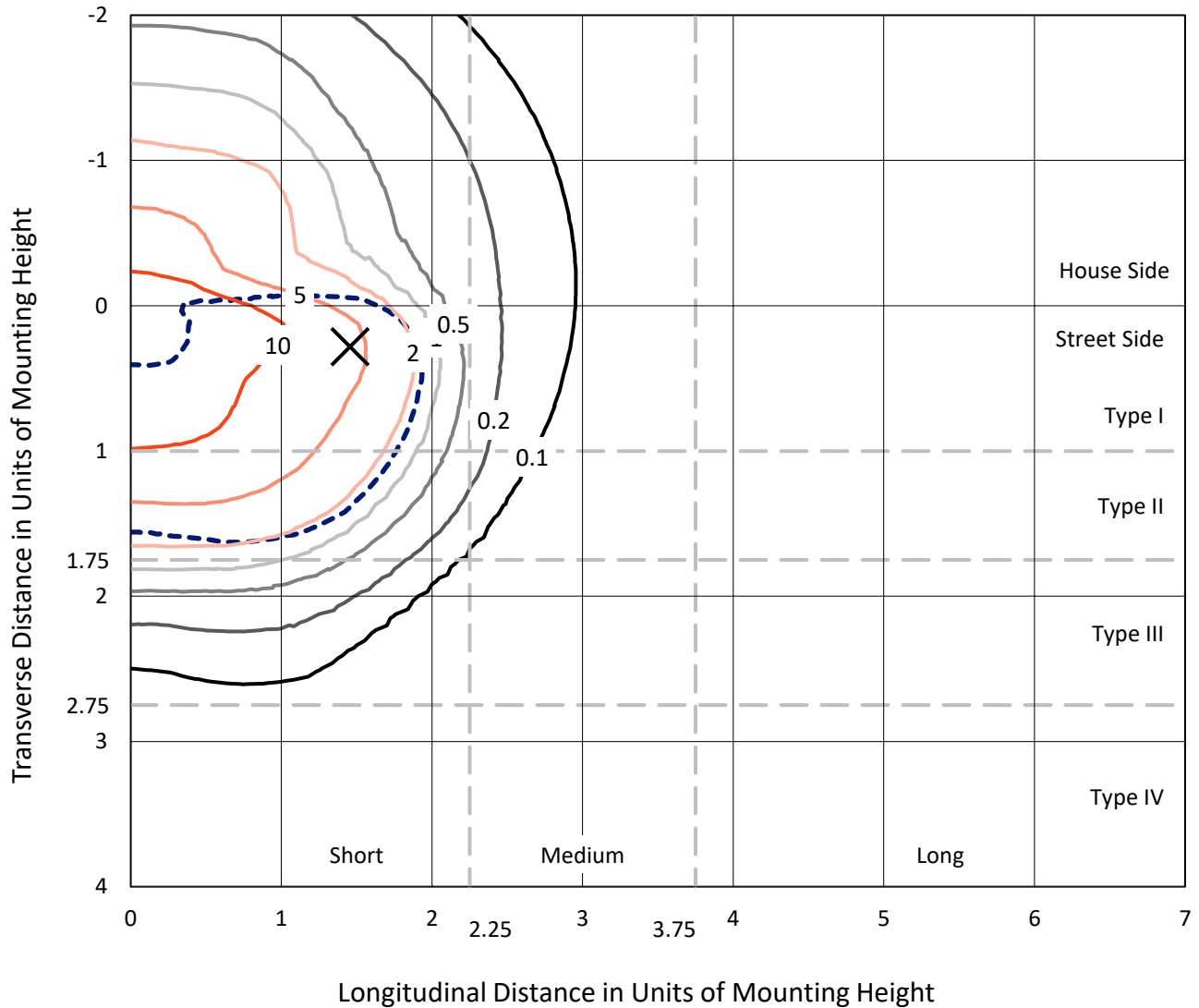
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

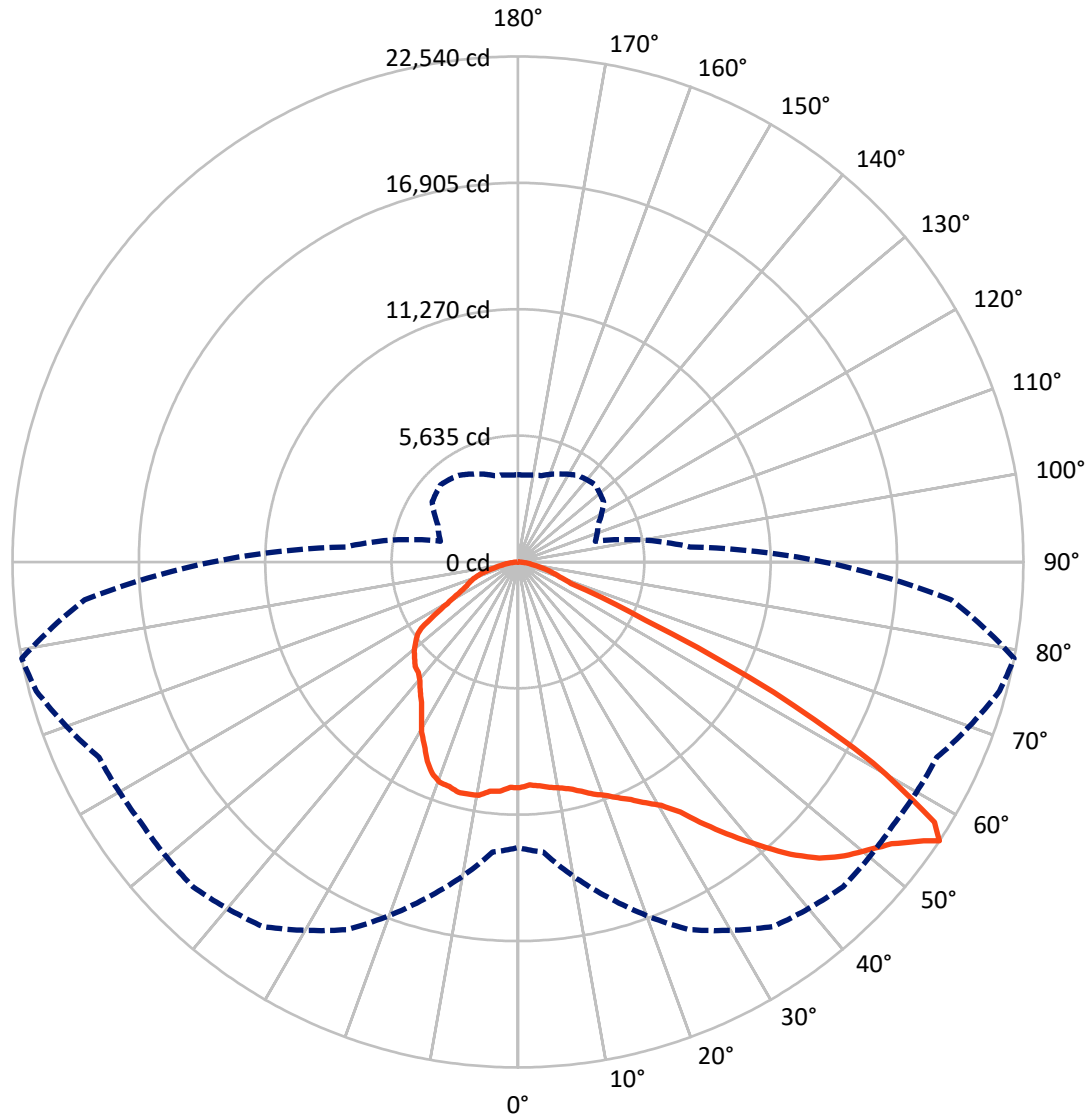
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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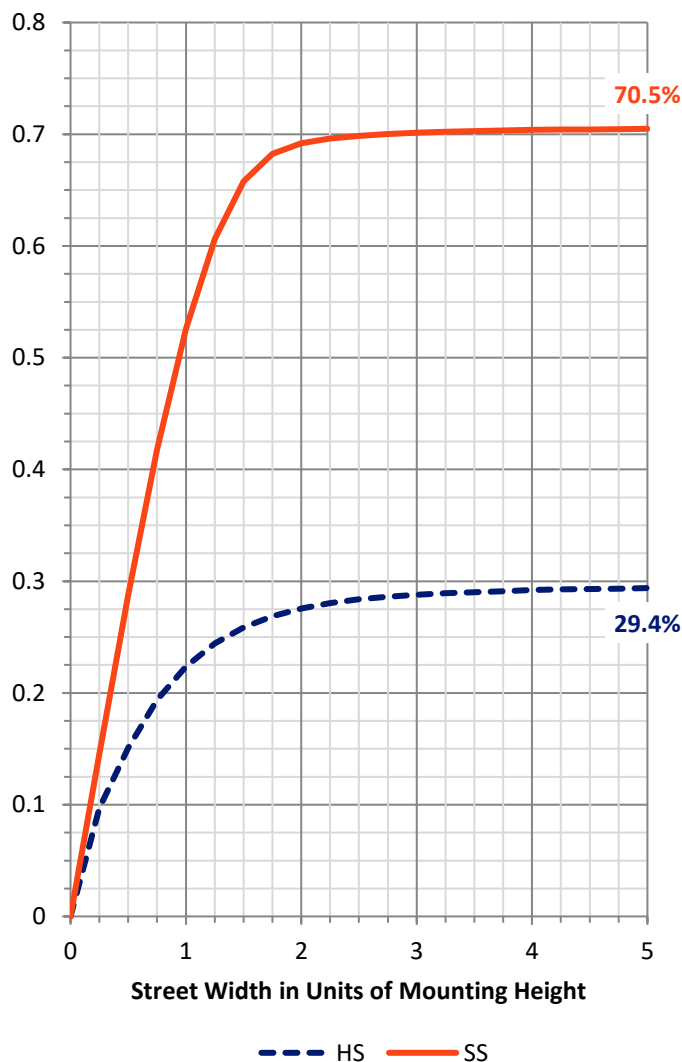
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11617.1	0.0	11617.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	27719.9	0.0	27719.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	39337.0	0.0	39337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.1	2.3
10°-20°	2504.3	6.4
20°-30°	4284.4	10.9
30°-40°	6566.4	16.7
40°-50°	8874.4	22.6
50°-60°	10192.6	25.9
60°-70°	4646.1	11.8
70°-80°	1145.5	2.9
80°-90°	208.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	39337.0	100.0
0°-180°	39337.0	100.0

Coefficient of Utilization



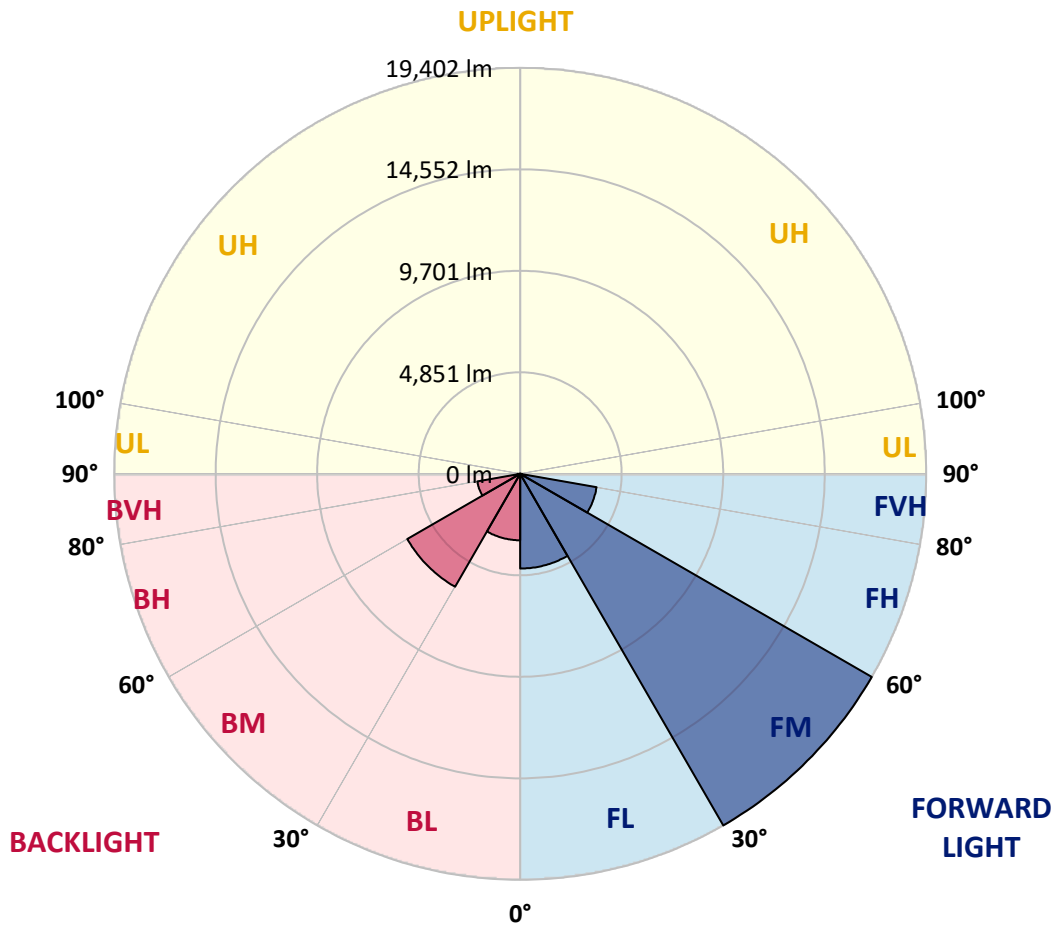
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4526.0	11.5			
FM (30°-60°)	19402.2	49.3			
FH (60°-80°)	3708.6	9.4			G2/5000
FVH (80°-90°)	83.1	0.2			G1/100
BL (0°-30°)	3177.8	8.1	B4/5000		
BM (30°-60°)	6231.3	15.8	B4/8500		
BH (60°-80°)	2083.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	125.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8
2.5°	9574.8	9550.3	9609.1	9653.2	9707.1	9775.7	9810.0	9829.6	10001.1	9957.0	10089.3
5°	9369.0	9305.3	9349.4	9383.7	9476.8	9560.1	9653.2	9800.2	9957.0	10025.6	10187.3
7.5°	9187.7	9153.4	9143.6	9168.1	9295.5	9403.3	9565.0	9780.6	10035.4	10148.1	10241.2
10°	8888.8	8839.8	8913.3	9075.0	9109.3	9334.7	9520.9	9829.6	10050.1	10246.1	10520.5
12.5°	8756.5	8707.5	8722.2	8815.3	9055.4	9271.0	9491.5	9839.4	10304.9	10383.3	10750.8
15°	8967.2	8918.2	8932.9	8908.4	9138.7	9251.4	9599.3	10035.4	10481.3	10613.6	11005.6
17.5°	9447.4	9452.3	9388.6	9334.7	9280.8	9520.9	9761.0	10153.0	10549.9	10883.1	11177.1
20°	10363.7	10202.0	10074.6	9770.8	9687.5	9790.4	10094.2	10471.5	10829.2	11103.6	11436.8
22.5°	11069.3	11084.0	10902.7	10402.9	10221.6	10265.7	10525.4	10834.1	11226.1	11422.1	11804.3
25°	12093.4	11990.5	11794.5	11397.6	10990.9	11025.2	11216.3	11495.6	11603.4	11740.6	12157.1
27.5°	13029.3	13058.7	12671.6	12299.2	11794.5	11696.5	12039.5	12088.5	11907.2	12166.9	12309.0
30°	13980.0	13955.5	13700.6	13264.5	12769.6	12789.2	12941.1	12701.0	12451.1	12593.2	12691.2
32.5°	14964.9	14685.6	14675.8	14283.8	13906.4	13725.1	13538.9	13656.5	13269.4	13298.8	13205.7
35°	15753.8	15793.0	15567.6	15288.3	15102.1	14783.6	14274.0	14484.7	14411.2	14376.9	13975.1
37.5°	16327.1	16175.2	16287.9	16194.8	16018.4	15621.5	15092.3	15293.2	15327.5	15494.1	15028.6
40°	16797.5	16733.8	17032.7	17081.7	16959.2	16101.7	15151.1	15748.9	16263.4	16626.0	16072.3
42.5°	17022.9	17160.1	17473.7	17851.0	17576.6	16660.3	15454.9	16096.8	17243.4	17816.7	17062.1
45°	17326.7	17150.3	17615.8	18306.7	18311.6	17130.7	15748.9	16567.2	18007.8	18840.8	17738.3
47.5°	17018.0	17106.2	17586.4	18463.5	18688.9	17625.6	16542.7	17233.6	18850.6	19590.6	18365.5
50°	16327.1	16503.5	17380.6	18292.0	18973.1	18149.9	17454.1	17953.9	19629.8	20193.3	18468.4
52.5°	15606.8	15704.8	17076.8	18424.3	19100.5	18826.1	18674.2	18948.6	20580.4	20874.4	18595.8
55°	13646.7	14112.3	16072.3	18365.5	19722.9	20046.3	19928.7	20330.5	21658.4	21952.4	19291.6
56°	12740.2	12985.2	15469.6	18091.1	19845.4	20492.2	20433.4	20614.7	22231.7	22540.4	19399.4
57.5°	11064.4	11084.0	13191.0	16875.9	19384.7	20624.5	20565.7	20707.8	22119.0	21908.3	18453.7
60°	6923.8	7227.6	8977.0	12980.3	16483.9	19134.8	19468.0	18326.3	18649.7	18203.8	14357.3
62.5°	3586.9	3542.8	4704.1	7590.2	10941.9	13700.6	14009.4	13955.5	13455.6	12803.9	9378.8
65°	1788.5	1798.3	2459.8	3758.4	5605.7	7173.7	8036.1	8129.2	6801.3	6257.4	4449.3
67.5°	1298.5	1347.5	1768.9	2298.1	2641.1	2954.8	3621.2	3552.6	2690.1	2557.8	2371.6
70°	1009.4	1053.5	1435.7	1754.2	1592.5	1592.5	1734.6	1793.4	1915.9	1969.8	2033.5
72.5°	735.0	769.3	1097.6	1210.3	1043.7	1122.1	1298.5	1435.7	1563.1	1582.7	1656.2
75°	504.7	534.1	720.3	666.4	627.2	774.2	950.6	1078.0	1171.1	1220.1	1264.2
77.5°	328.3	338.1	411.6	347.9	401.8	499.8	617.4	725.2	818.3	857.5	867.3
80°	147.0	161.7	176.4	220.5	279.3	357.7	441.0	529.2	588.0	602.7	632.1
82.5°	83.3	83.3	107.8	156.8	205.8	259.7	318.5	382.2	450.8	465.5	460.6
85°	44.1	44.1	63.7	93.1	127.4	151.9	147.0	151.9	161.7	186.2	181.3
87.5°	14.7	14.7	19.6	19.6	24.5	29.4	24.5	34.3	44.1	44.1	44.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8	10064.8
2.5°	10050.1	10094.2	10035.4	10162.8	10162.8	10138.3	10015.8	10055.0	10084.4	10084.4	10108.9
5°	10241.2	10226.5	10265.7	10113.8	10020.7	9986.4	9785.5	9687.5	9604.2	9599.3	9525.8
7.5°	10349.0	10309.8	10295.1	10182.4	9770.8	9520.9	9089.7	8839.8	8785.9	8594.8	8668.3
10°	10520.5	10594.0	10520.5	9908.0	9334.7	8761.4	8339.9	7952.8	7800.9	7678.4	7604.9
12.5°	10873.3	10839.0	10412.7	9584.6	8781.0	8099.8	7472.6	7065.9	6914.0	6806.2	6796.4
15°	11172.2	11000.7	10349.0	9075.0	7918.5	7193.3	6678.8	6389.7	6321.1	6330.9	6375.0
17.5°	11275.1	11157.5	10015.8	8545.8	7276.6	6424.0	6183.9	6139.8	6203.5	6277.0	6296.6
20°	11436.8	11250.6	9878.6	7825.4	6482.8	5943.8	5929.1	6085.9	6203.5	6311.3	6326.0
22.5°	11774.9	11304.5	9432.7	7144.3	5938.9	5801.7	5943.8	6076.1	6257.4	6345.6	6267.2
25°	11872.9	11186.9	8805.5	6326.0	5595.9	5713.5	5865.4	6046.7	6174.1	6223.1	6257.4
27.5°	11956.2	11005.6	7957.7	5782.1	5488.1	5708.6	5865.4	6017.3	6085.9	6130.0	6169.2
30°	12191.4	10951.7	7222.7	5419.5	5419.5	5610.6	5811.5	5850.7	5943.8	5997.7	6066.3
32.5°	12309.0	10579.3	6468.1	5189.2	5350.9	5659.6	5674.3	5747.8	5752.7	5796.8	5723.3
35°	12617.7	10314.7	5767.4	5022.6	5380.3	5610.6	5684.1	5640.0	5399.9	5282.3	5306.8
37.5°	12843.1	10182.4	5262.7	5003.0	5385.2	5664.5	5703.7	5370.5	5120.6	4924.6	4973.6
40°	13450.7	9854.1	4880.5	4968.7	5429.3	5723.3	5615.5	5252.9	4802.1	4601.2	4566.9
42.5°	13916.2	9618.9	4640.4	4929.5	5463.6	5806.6	5571.4	5017.7	4557.1	4370.9	4419.9
45°	14455.3	9565.0	4513.0	4939.3	5522.4	5850.7	5517.5	4836.4	4346.4	4272.9	4258.2
47.5°	14646.4	9177.9	4375.8	4856.0	5507.7	5836.0	5336.2	4699.2	4268.0	4277.8	4317.0
50°	14327.9	8781.0	4272.9	4684.5	5409.7	5703.7	5052.0	4517.9	4223.9	4346.4	4415.0
52.5°	13921.1	8374.3	4062.2	4454.2	5208.8	5497.9	4919.7	4508.1	4179.8	4140.6	4155.3
55°	14043.7	8041.0	3768.2	4140.6	4885.4	5115.7	4772.7	4415.0	4072.0	3925.0	3974.0
56°	13646.7	7698.0	3577.1	3944.6	4664.9	4870.7	4699.2	4331.7	3983.8	3885.8	3885.8
57.5°	12524.6	6546.5	3327.2	3631.0	4199.4	4444.4	4557.1	4282.7	3885.8	3714.3	3719.2
60°	9236.7	4655.1	2984.2	3199.8	3479.1	3675.1	4199.4	4145.5	3640.8	3523.2	3479.1
62.5°	5693.9	3400.7	2739.1	2822.5	2964.6	3126.3	3665.3	3753.5	3381.1	3253.7	3224.3
65°	3190.0	2601.9	2552.9	2587.2	2655.8	2739.1	3043.0	3239.0	2984.2	2788.2	2778.3
67.5°	2332.4	2327.5	2366.7	2396.1	2425.5	2425.5	2499.0	2577.4	2543.1	2386.3	2371.6
70°	2072.7	2087.4	2116.8	2121.7	2131.5	2097.2	2038.4	2013.9	2053.1	1955.1	1935.5
72.5°	1710.1	1759.1	1793.4	1798.3	1744.4	1700.3	1621.9	1538.6	1509.2	1489.6	1484.7
75°	1313.2	1347.5	1362.2	1357.3	1337.7	1274.0	1180.9	1097.6	1043.7	984.9	1014.3
77.5°	886.9	935.9	960.4	960.4	931.0	833.0	788.9	725.2	671.3	607.6	617.4
80°	622.3	656.6	695.8	690.9	641.9	592.9	529.2	470.4	426.3	377.3	372.4
82.5°	465.5	485.1	504.7	494.9	460.6	411.6	367.5	313.6	264.6	230.3	230.3
85°	166.6	181.3	220.5	230.3	249.9	249.9	210.7	176.4	142.1	117.6	117.6
87.5°	49.0	49.0	53.9	53.9	49.0	53.9	44.1	49.0	53.9	34.3	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)