

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: P192047

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7050-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-7050-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40854 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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: 28.75 FT

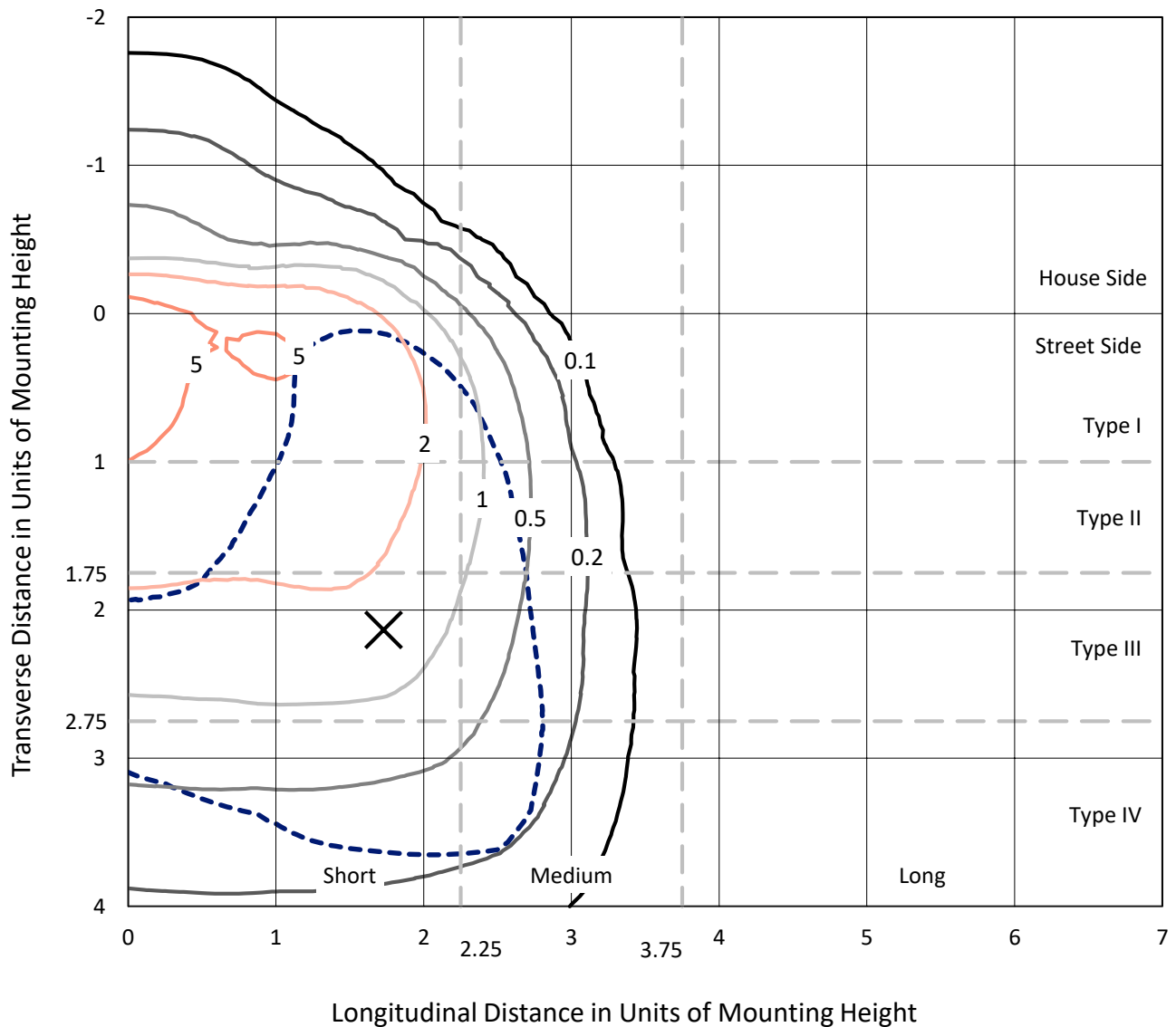


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

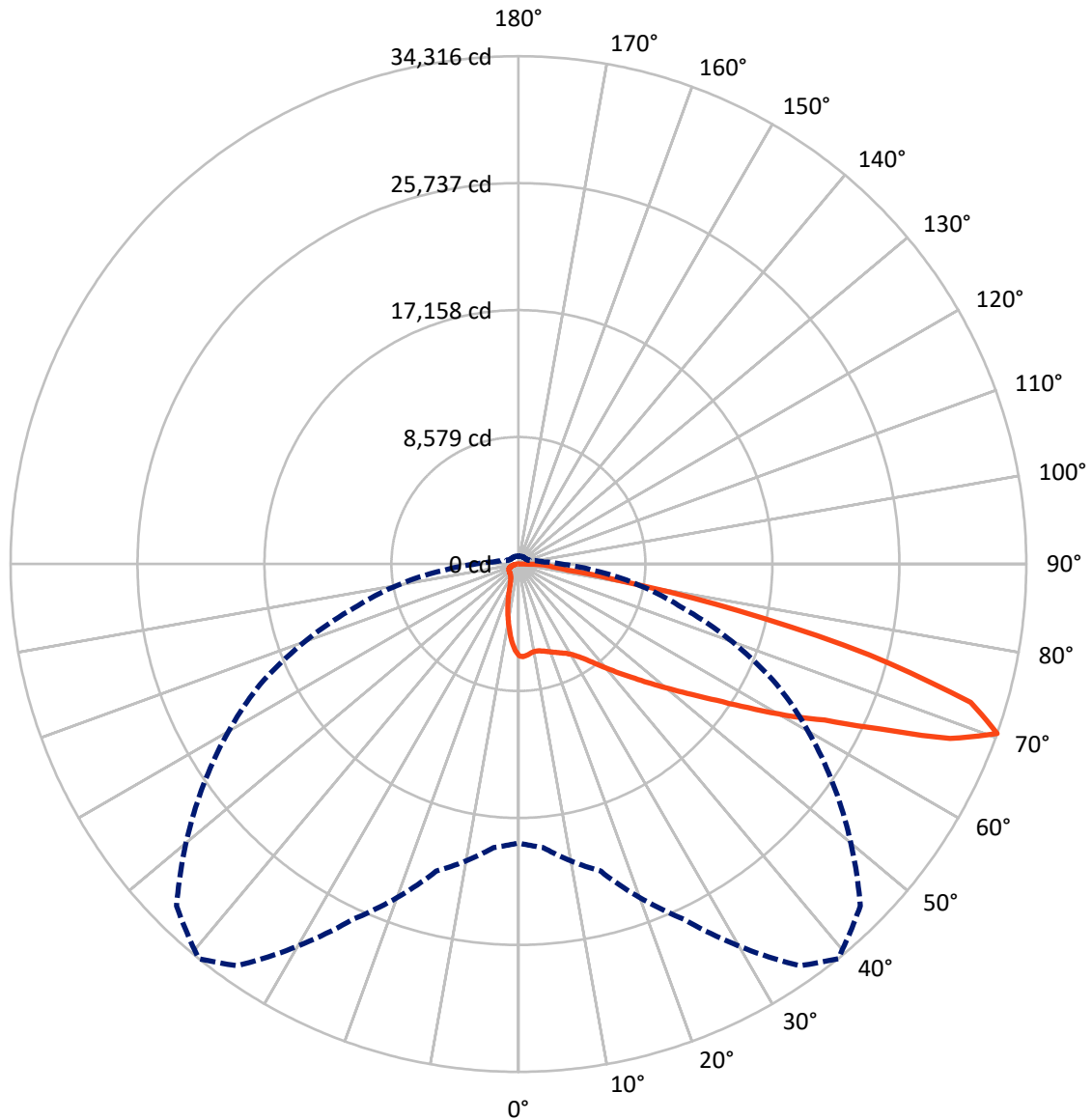


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4646.5	0.0	4646.5
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	36207.5	0.0	36207.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	40854.0	0.0	40854.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.3	1.3
10°-20°	1330.5	3.3
20°-30°	2071.6	5.1
30°-40°	3227.2	7.9
40°-50°	5417.9	13.3
50°-60°	8606.7	21.1
60°-70°	11480.4	28.1
70°-80°	6932.7	17.0
80°-90°	1254.7	3.1
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°	40854.0	100.0
0°-180°	40854.0	100.0



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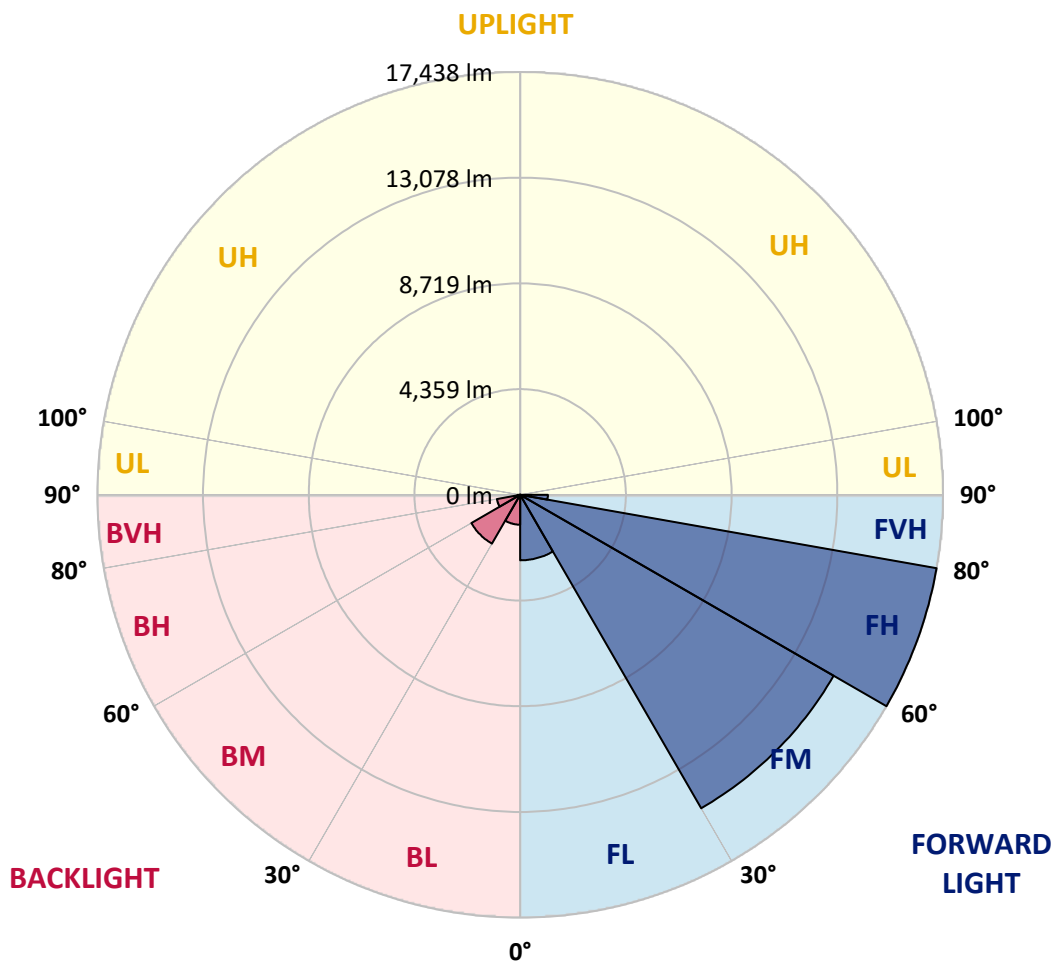
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2701.7	6.6			
FM (30°-60°)	14926.5	36.5			
FH (60°-80°)	17437.7	42.7			G5
FVH (80°-90°)	1141.6	2.8			G5
BL (0°-30°)	1232.6	3.0	B3/2500		
BM (30°-60°)	2325.3	5.7	B2/2500		
BH (60°-80°)	975.5	2.4	B2/1000		G2/1000
BVH (80°-90°)	113.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3
2.5°	6322.7	6320.7	6304.0	6291.6	6281.2	6277.0	6285.4	6254.2	6227.2	6194.0	6158.7
5°	6275.0	6272.9	6245.9	6221.0	6196.0	6187.7	6185.7	6129.6	6096.3	6046.5	5980.0
7.5°	6223.0	6212.7	6177.3	6135.8	6092.2	6071.4	6050.6	5977.9	5940.6	5890.7	5813.8
10°	6169.0	6156.6	6123.3	6081.8	6040.3	6009.1	5973.8	5903.2	5863.7	5826.3	5737.0
12.5°	6113.0	6102.6	6094.3	6075.6	6046.5	6019.5	5992.5	5932.2	5890.7	5847.1	5743.2
15°	6104.6	6100.5	6119.2	6131.6	6115.0	6098.4	6069.3	6017.4	5973.8	5930.2	5795.2
17.5°	6171.1	6169.0	6216.8	6250.0	6241.7	6212.7	6173.2	6115.0	6079.7	6042.3	5874.1
20°	6316.5	6326.9	6385.1	6428.7	6387.1	6345.6	6281.2	6200.2	6181.5	6164.9	5955.1
22.5°	6590.7	6601.1	6642.6	6659.2	6551.2	6491.0	6401.7	6297.8	6285.4	6297.8	6052.7
25°	7018.6	7008.2	7002.0	6939.6	6742.3	6648.9	6534.6	6426.6	6432.8	6488.9	6189.8
27.5°	7585.6	7529.5	7442.3	7255.4	6941.7	6837.9	6698.7	6599.0	6638.5	6746.5	6395.4
30°	8173.5	8111.1	7909.7	7604.3	7203.4	7089.2	6933.4	6821.3	6925.1	7095.4	6669.6
32.5°	8717.7	8709.4	8414.4	8021.8	7564.9	7465.2	7309.4	7182.7	7350.9	7610.6	7080.9
35°	9311.7	9330.4	8977.3	8505.8	8053.0	7949.1	7837.0	7741.4	7965.7	8323.0	7677.0
37.5°	9947.3	9984.7	9567.2	9035.5	8609.6	8566.0	8499.6	8458.0	8804.9	9299.3	8509.9
40°	10796.9	10759.5	10179.9	9633.7	9293.0	9290.9	9270.2	9320.0	9897.5	10574.6	9579.7
42.5°	11706.6	11596.5	10830.1	10275.5	10042.9	10113.5	10155.0	10358.6	11212.3	12124.1	10884.1
45°	12687.0	12439.9	11505.1	10954.7	10875.8	11025.3	11166.6	11609.0	12759.7	13887.6	12313.1
47.5°	13470.1	13231.2	12203.1	11667.2	11839.6	12066.0	12338.1	13038.1	14492.0	15709.2	13723.5
50°	14087.0	13931.2	12907.2	12498.0	12901.0	13249.9	13694.4	14656.1	16295.0	17483.1	15030.0
52.5°	14685.2	14568.9	13617.6	13349.6	14147.2	14629.1	15233.6	16392.6	18143.6	19227.9	16128.8
55°	15225.3	15142.2	14382.0	14411.0	15613.7	16241.0	17001.2	18370.0	20158.4	20783.6	17059.4
57.5°	15833.9	15727.9	15254.3	15742.5	17497.6	18311.9	19300.6	20592.5	22048.6	22167.0	17767.7
60°	16446.6	16355.2	16222.3	17279.5	19890.5	20746.2	21683.0	22746.5	23965.8	23240.9	17726.1
62.5°	16978.4	16988.7	17223.5	18893.5	22233.5	23224.2	24366.7	25417.7	25700.2	23427.8	16415.5
65°	17879.8	18043.9	18743.9	21178.3	25531.9	26857.1	28259.2	28090.9	26180.0	21680.9	13605.1
67.5°	18951.6	19240.3	20659.0	24223.3	29700.7	31460.0	32002.1	28695.4	24258.6	17624.3	9698.1
70°	18843.6	19240.3	21485.7	26493.6	33136.2	34316.0	32671.0	25970.2	19263.2	11513.5	5151.2
72.5°	16733.3	17300.3	19801.2	25453.0	32054.1	31950.2	28363.0	19360.8	11444.9	4623.7	2012.7
75°	12753.5	13326.8	15478.7	20108.6	25334.6	24462.2	20125.2	10695.1	4343.3	1836.2	1269.1
77.5°	7336.4	7780.9	9442.6	12331.8	16072.7	15177.5	11201.9	4756.6	2114.5	1279.5	990.8
80°	4096.1	4343.3	5352.7	6256.3	7876.4	7220.1	5012.1	2955.7	1578.6	928.5	764.4
82.5°	3238.2	3458.4	4328.7	3946.5	3597.6	3319.2	2878.9	2631.7	1260.8	585.7	457.0
85°	2829.0	3038.8	3664.0	3107.4	2457.2	2253.7	2338.8	2590.2	980.4	353.1	390.5
87.5°	2621.3	2901.7	3265.2	2394.9	1913.0	1694.9	2158.1	2839.4	315.7	220.2	157.9
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°	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3
2.5°	6127.5	6094.3	6040.3	5992.5	5917.7	5878.2	5834.6	5803.5	5778.5	5757.8	5791.0
5°	5938.5	5876.2	5761.9	5639.4	5494.0	5379.7	5284.2	5194.9	5132.6	5091.0	5120.1
7.5°	5759.8	5658.1	5479.4	5257.2	5007.9	4796.1	4621.6	4467.9	4361.9	4293.4	4320.4
10°	5658.1	5531.4	5255.1	4906.1	4538.5	4208.2	3934.1	3697.3	3533.2	3439.7	3454.2
12.5°	5633.1	5469.0	5086.9	4607.0	4104.4	3645.3	3259.0	2930.8	2700.3	2579.8	2583.9
15°	5651.8	5442.0	4929.0	4320.4	3684.8	3105.3	2623.4	2224.6	1956.6	1819.6	1817.5
17.5°	5683.0	5421.3	4762.8	4010.9	3259.0	2586.0	2048.0	1657.5	1420.7	1310.7	1302.4
20°	5716.2	5388.0	4575.9	3676.5	2816.6	2104.1	1603.5	1298.2	1148.6	1088.4	1084.3
22.5°	5764.0	5359.0	4382.7	3323.4	2382.5	1713.6	1319.0	1113.3	1034.4	1003.2	999.1
25°	5840.9	5344.4	4177.1	2955.7	1992.0	1433.2	1148.6	1021.9	976.2	955.5	953.4
27.5°	5969.6	5365.2	3983.9	2598.5	1674.2	1244.2	1053.1	976.2	943.0	924.3	922.2
30°	6135.8	5429.6	3780.4	2259.9	1427.0	1115.4	994.9	945.1	918.1	899.4	899.4
32.5°	6412.1	5537.6	3566.4	1967.0	1250.4	1026.1	951.3	918.1	895.2	880.7	878.6
35°	6819.2	5741.2	3367.0	1724.0	1123.7	961.7	913.9	889.0	872.4	864.1	864.1
37.5°	7411.2	6063.1	3190.5	1549.5	1046.9	918.1	878.6	859.9	849.5	849.5	849.5
40°	8206.7	6507.6	3047.1	1433.2	1003.2	886.9	851.6	837.1	830.8	832.9	832.9
42.5°	9189.2	7085.0	2951.6	1352.2	982.5	868.2	832.9	820.5	814.2	812.2	814.2
45°	10308.7	7741.4	2941.2	1292.0	961.7	855.8	820.5	808.0	795.5	787.2	787.2
47.5°	11397.1	8408.2	3026.4	1271.2	938.9	841.2	810.1	797.6	778.9	760.2	760.2
50°	12358.8	8975.2	3140.6	1279.5	930.5	820.5	793.5	787.2	758.1	737.4	735.3
52.5°	13123.2	9411.4	3234.1	1304.4	938.9	805.9	772.7	774.8	743.6	720.8	718.7
55°	13736.0	9698.1	3209.1	1329.4	957.6	797.6	754.0	758.1	733.2	710.4	710.4
57.5°	14003.9	9592.1	2932.9	1308.6	972.1	799.7	739.5	756.1	735.3	714.5	714.5
60°	13428.6	8651.2	2415.7	1217.2	953.4	793.5	733.2	764.4	762.3	741.5	739.5
62.5°	11687.9	6966.6	1873.6	1082.2	889.0	762.3	716.6	762.3	785.2	778.9	776.8
65°	9008.5	4962.2	1431.1	936.8	801.8	710.4	673.0	714.5	745.7	754.0	751.9
67.5°	5847.1	3040.9	1102.9	799.7	704.1	650.1	616.9	635.6	641.8	641.8	637.7
70°	2874.7	1636.8	878.6	673.0	604.4	585.7	567.1	556.7	546.3	538.0	538.0
72.5°	1418.7	1069.7	722.8	569.1	521.4	513.0	508.9	496.4	488.1	477.7	473.6
75°	1048.9	870.3	614.8	479.8	448.7	440.3	448.7	438.3	436.2	427.9	423.7
77.5°	862.0	741.5	529.7	411.3	384.3	369.7	382.2	384.3	386.3	373.9	369.7
80°	700.0	627.3	442.4	340.6	315.7	305.3	313.6	330.3	334.4	315.7	307.4
82.5°	504.7	513.0	357.3	265.9	245.1	236.8	253.4	274.2	278.3	251.3	245.1
85°	423.7	427.9	274.2	189.0	168.2	155.8	182.8	203.6	218.1	191.1	184.9
87.5°	176.6	251.3	157.9	105.9	93.5	81.0	97.6	108.0	130.9	120.5	118.4
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)