

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: P323882

Luminaire Tested: **GAN-SA8B-750-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-750-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37171 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

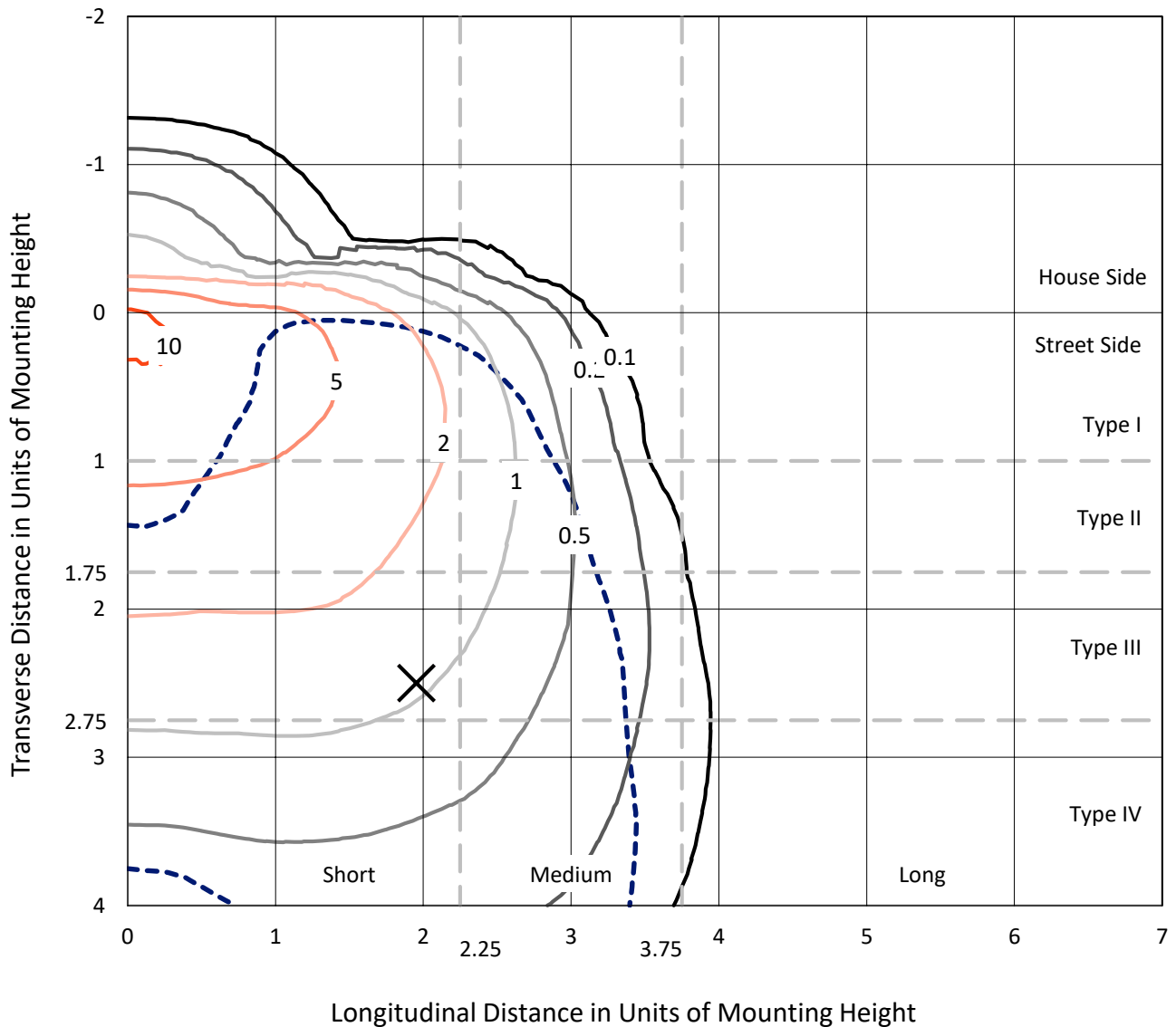
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

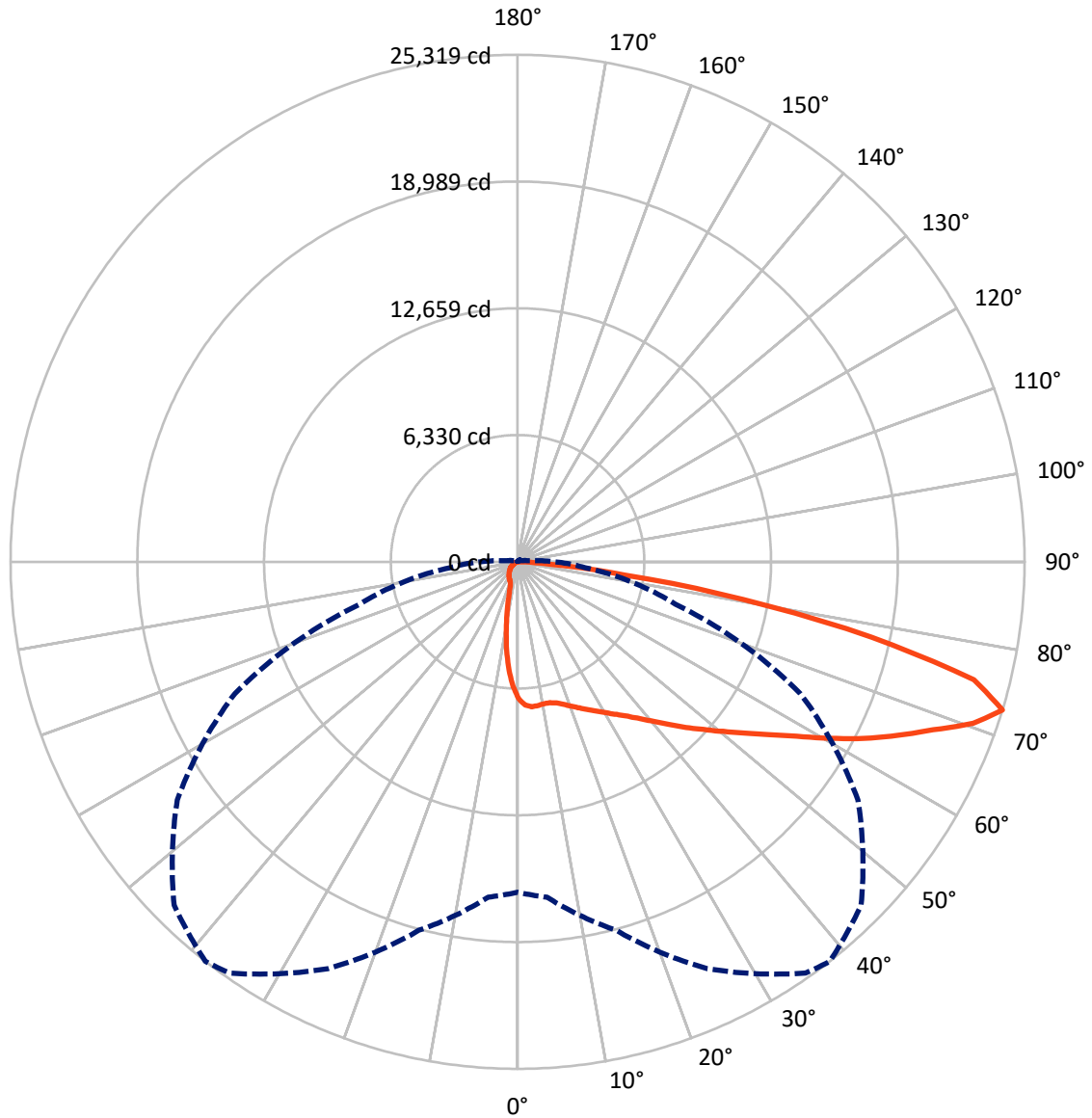
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3128.1	0.0	3128.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34042.9	0.0	34042.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	37171.0	0.0	37171.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.5	1.6
10°-20°	1424.4	3.8
20°-30°	2265.5	6.1
30°-40°	3405.9	9.2
40°-50°	5196.0	14.0
50°-60°	7343.7	19.8
60°-70°	9211.4	24.8
70°-80°	6887.6	18.5
80°-90°	854.0	2.3
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°	37171.0	100.0
0°-180°	37171.0	100.0



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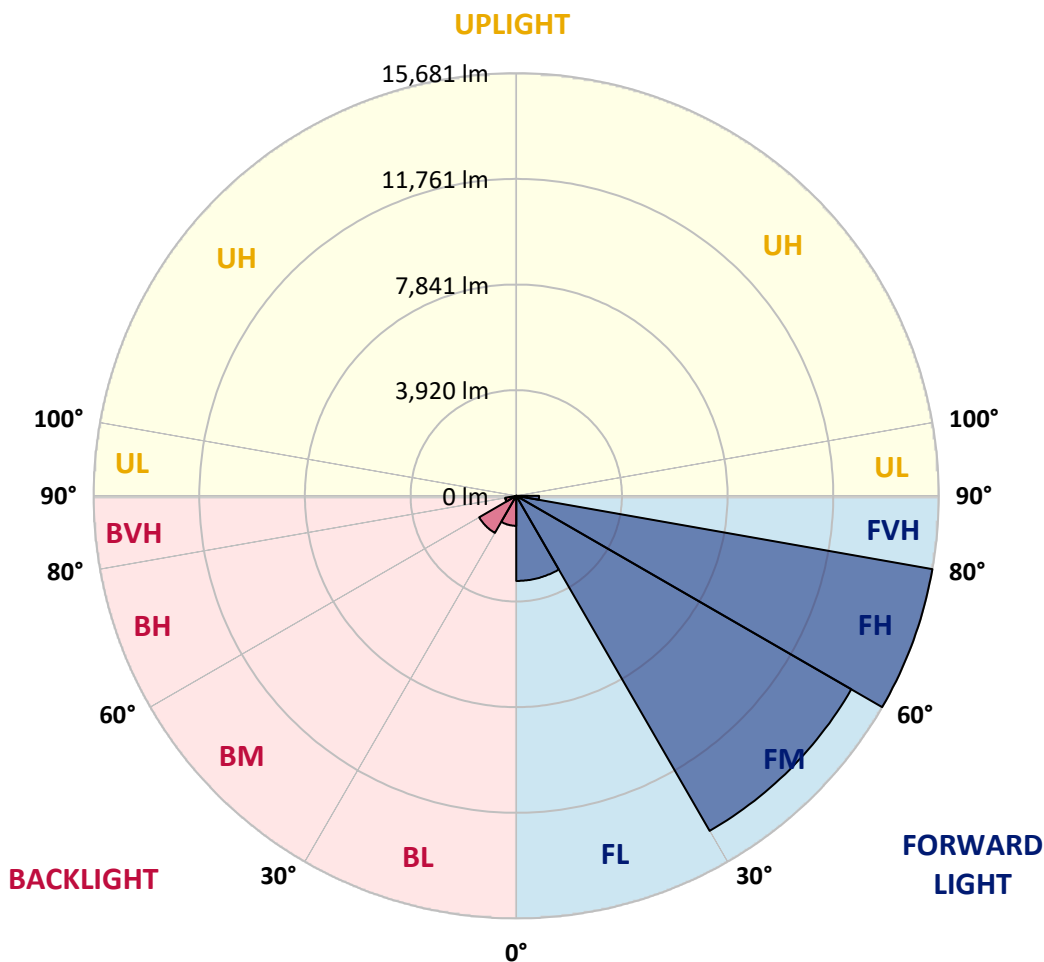
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3158.6	8.5			
FM (30°-60°)	14357.1	38.6			
FH (60°-80°)	15681.1	42.2			G5
FVH (80°-90°)	846.1	2.3			G5
BL (0°-30°)	1113.8	3.0	B3/2500		
BM (30°-60°)	1588.5	4.3	B2/2500		
BH (60°-80°)	417.8	1.1	B1/500		G1/500
BVH (80°-90°)	8.0	0.0			G0/10
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°	38°	45°	55°	65°	75°	85°
0°	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6
2.5°	7255.5	7257.1	7240.1	7212.3	7176.8	7158.3	7127.4	7078.0	7025.5	6931.3	6829.4
5°	7403.7	7403.7	7382.1	7345.1	7287.9	7271.0	7212.3	7133.6	7025.5	6872.7	6701.3
7.5°	7388.3	7391.4	7362.0	7323.4	7266.3	7250.9	7179.9	7091.9	6957.6	6772.3	6553.1
10°	7308.0	7315.7	7292.6	7274.0	7221.6	7204.6	7138.2	7050.2	6915.9	6718.3	6466.7
12.5°	7226.2	7233.9	7241.6	7258.6	7226.2	7220.0	7167.5	7093.4	6965.3	6760.0	6475.9
15°	7173.7	7189.1	7244.7	7311.1	7318.8	7312.6	7278.7	7209.2	7079.5	6866.5	6542.3
17.5°	7173.7	7198.4	7314.2	7440.8	7485.5	7490.2	7460.8	7363.6	7209.2	6980.7	6604.1
20°	7233.9	7267.9	7448.5	7627.6	7701.7	7701.7	7644.5	7508.7	7328.1	7084.2	6645.7
22.5°	7388.3	7433.0	7660.0	7866.8	7945.6	7928.6	7851.4	7653.8	7451.6	7201.5	6698.2
25°	7692.4	7726.4	7962.5	8170.9	8218.8	8180.2	8083.0	7829.8	7609.0	7360.5	6793.9
27.5°	8084.5	8089.1	8333.0	8509.0	8479.7	8453.5	8331.5	8050.5	7836.0	7587.4	6959.1
30°	8515.2	8515.2	8729.8	8864.1	8774.5	8752.9	8631.0	8317.6	8126.2	7896.2	7193.8
32.5°	8932.0	8950.5	9125.0	9209.9	9109.5	9087.9	8969.1	8655.7	8512.1	8367.0	7559.6
35°	9334.9	9348.8	9514.0	9560.3	9464.6	9470.8	9385.9	9120.3	9066.3	9047.8	8110.7
37.5°	9725.5	9728.6	9896.8	9926.2	9878.3	9930.8	9938.5	9703.9	9804.2	9954.0	8887.2
40°	10082.1	10085.2	10251.9	10327.5	10409.4	10477.3	10537.5	10412.4	10744.3	11091.7	9811.9
42.5°	10367.7	10400.1	10611.6	10755.1	10971.3	11100.9	11264.6	11258.4	11863.5	12385.3	10929.6
45°	10619.3	10674.9	10969.7	11221.4	11591.8	11798.7	12055.0	12255.7	13123.2	13825.6	12061.1
47.5°	10951.2	11003.7	11340.2	11752.4	12246.4	12518.1	12942.6	13376.4	14507.9	15239.7	13166.4
50°	11419.0	11395.8	11727.7	12318.9	12953.4	13310.0	13915.2	14565.1	15881.9	16471.6	13816.4
52.5°	11917.6	11908.3	12153.8	12934.9	13787.0	14203.8	15003.5	15793.9	17195.6	17320.6	14114.3
55°	12535.1	12468.7	12675.5	13637.3	14776.6	15224.2	16165.9	17010.3	18242.2	17799.2	14264.0
57.5°	13181.9	13072.3	13269.9	14420.0	15892.7	16422.2	17453.4	18195.9	18938.4	18126.4	14262.5
60°	13850.3	13720.6	13955.3	15398.7	17278.9	17891.8	18848.9	18997.1	19588.4	18291.6	14157.5
62.5°	14409.2	14332.0	14680.8	16445.3	18827.3	19429.4	19903.3	19725.7	20136.4	18419.8	13912.1
65°	15000.4	15005.0	15568.5	17666.4	20472.9	20878.9	20919.0	20670.5	20594.9	18393.5	13081.5
67.5°	15800.0	15874.1	16814.3	19324.4	22073.8	22387.1	22384.0	21694.0	20929.9	17350.0	11239.9
70°	16646.0	16820.5	18249.9	21221.6	23821.3	24139.3	23975.6	22345.5	19707.2	14029.4	7954.8
72.5°	16504.0	16806.6	19048.1	22418.0	25076.3	25318.7	24255.0	20744.6	15576.2	8154.0	3386.9
75°	12732.7	13083.1	17465.7	21232.4	23759.5	23541.8	20840.3	16142.8	8512.1	2275.5	762.6
77.5°	6726.0	6912.8	11537.8	16175.2	18526.3	18070.9	14680.8	8955.2	2595.0	563.5	342.7
80°	3522.8	3566.0	5027.9	9177.5	11434.4	11437.5	8700.4	3933.4	1069.8	288.7	230.0
82.5°	1886.4	1923.5	2656.8	4240.6	5991.2	5430.8	3331.4	2164.3	622.1	163.6	220.8
85°	453.9	461.6	1506.7	1937.4	2355.7	1682.7	989.5	1817.0	168.3	95.7	179.1
87.5°	174.4	177.5	558.8	838.2	600.5	389.0	463.1	677.7	21.6	37.0	27.8
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°	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6	6835.6
2.5°	6767.7	6727.6	6628.8	6503.7	6392.6	6312.3	6191.9	6113.2	6060.7	6059.1	6039.1
5°	6596.3	6514.5	6301.5	6048.3	5818.3	5611.4	5367.5	5174.6	5031.0	5007.9	4958.5
7.5°	6412.6	6278.3	5951.1	5555.9	5169.9	4777.8	4322.4	4039.9	3797.6	3681.8	3669.4
10°	6300.0	6111.6	5647.0	5075.8	4470.6	3833.1	3237.2	2825.0	2527.1	2442.2	2378.9
12.5°	6276.8	6028.3	5412.3	4625.0	3760.5	2917.6	2258.5	1820.1	1582.3	1506.7	1486.6
15°	6300.0	5989.7	5214.7	4178.9	3041.1	2070.1	1515.9	1261.2	1171.7	1150.1	1148.5
17.5°	6313.8	5943.4	4990.9	3683.3	2343.4	1478.9	1160.9	1086.8	1072.9	1071.3	1074.4
20°	6312.3	5872.3	4723.8	3130.7	1742.9	1162.4	1049.7	1034.3	1031.2	1032.8	1031.2
22.5°	6301.5	5789.0	4430.5	2561.0	1316.8	1038.9	1001.9	992.6	991.1	991.1	991.1
25°	6321.6	5722.6	4107.9	2016.1	1085.2	981.8	958.7	950.9	949.4	949.4	946.3
27.5°	6394.1	5685.5	3754.3	1551.4	980.3	930.9	912.3	910.8	906.2	904.6	907.7
30°	6511.4	5685.5	3366.9	1207.2	917.0	878.4	864.5	861.4	859.9	858.3	859.9
32.5°	6718.3	5728.8	2943.9	1003.4	856.8	819.7	810.5	815.1	810.5	810.5	810.5
35°	7091.9	5858.4	2500.8	875.3	793.5	762.6	753.3	759.5	756.4	756.4	754.9
37.5°	7636.8	6099.3	2054.7	798.1	737.9	705.5	693.1	702.4	699.3	699.3	697.8
40°	8300.6	6449.7	1630.2	739.4	683.9	649.9	639.1	643.7	636.0	636.0	639.1
42.5°	9120.3	6894.3	1259.7	682.3	629.8	597.4	591.2	586.6	572.7	565.0	566.5
45°	10031.1	7357.4	981.8	626.8	578.9	552.7	543.4	531.0	507.9	492.4	494.0
47.5°	10844.7	7714.0	798.1	572.7	532.6	512.5	498.6	475.5	441.5	423.0	424.5
50°	11272.3	7768.0	679.2	518.7	489.4	469.3	449.2	413.7	373.6	353.5	352.0
52.5°	11381.9	7514.9	591.2	469.3	446.1	423.0	396.7	348.9	304.1	282.5	279.4
55°	11422.0	7128.9	512.5	423.0	399.8	373.6	339.6	285.6	243.9	222.3	220.8
57.5°	11289.3	6553.1	450.8	381.3	353.5	321.1	279.4	228.5	188.3	171.4	171.4
60°	10994.4	5773.5	402.9	336.5	305.7	268.6	225.4	177.5	140.5	126.6	126.6
62.5°	10406.3	4763.9	358.1	290.2	260.9	222.3	182.2	134.3	98.8	91.1	92.6
65°	9296.3	3613.9	313.4	248.5	222.3	183.7	142.0	95.7	66.4	66.4	69.5
67.5°	7581.2	2510.1	267.1	211.5	191.4	149.7	108.1	66.4	46.3	52.5	58.7
70°	5018.7	1407.9	228.5	174.4	163.6	118.9	80.3	44.8	37.0	49.4	60.2
72.5°	1894.2	548.0	191.4	140.5	142.0	91.1	57.1	34.0	34.0	54.0	71.0
75°	528.0	268.6	137.4	103.4	111.1	66.4	41.7	29.3	32.4	61.7	83.4
77.5°	310.3	197.6	89.5	60.2	75.6	46.3	27.8	23.2	27.8	52.5	80.3
80°	250.1	105.0	52.5	30.9	41.7	26.2	18.5	13.9	7.7	20.1	41.7
82.5°	250.1	63.3	24.7	21.6	21.6	13.9	9.3	6.2	1.5	0.0	10.8
85°	168.3	26.2	15.4	13.9	10.8	4.6	3.1	1.5	0.0	0.0	0.0
87.5°	27.8	10.8	6.2	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
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)