

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: P319840

Luminaire Tested: **GAN-SA6B-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27162 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

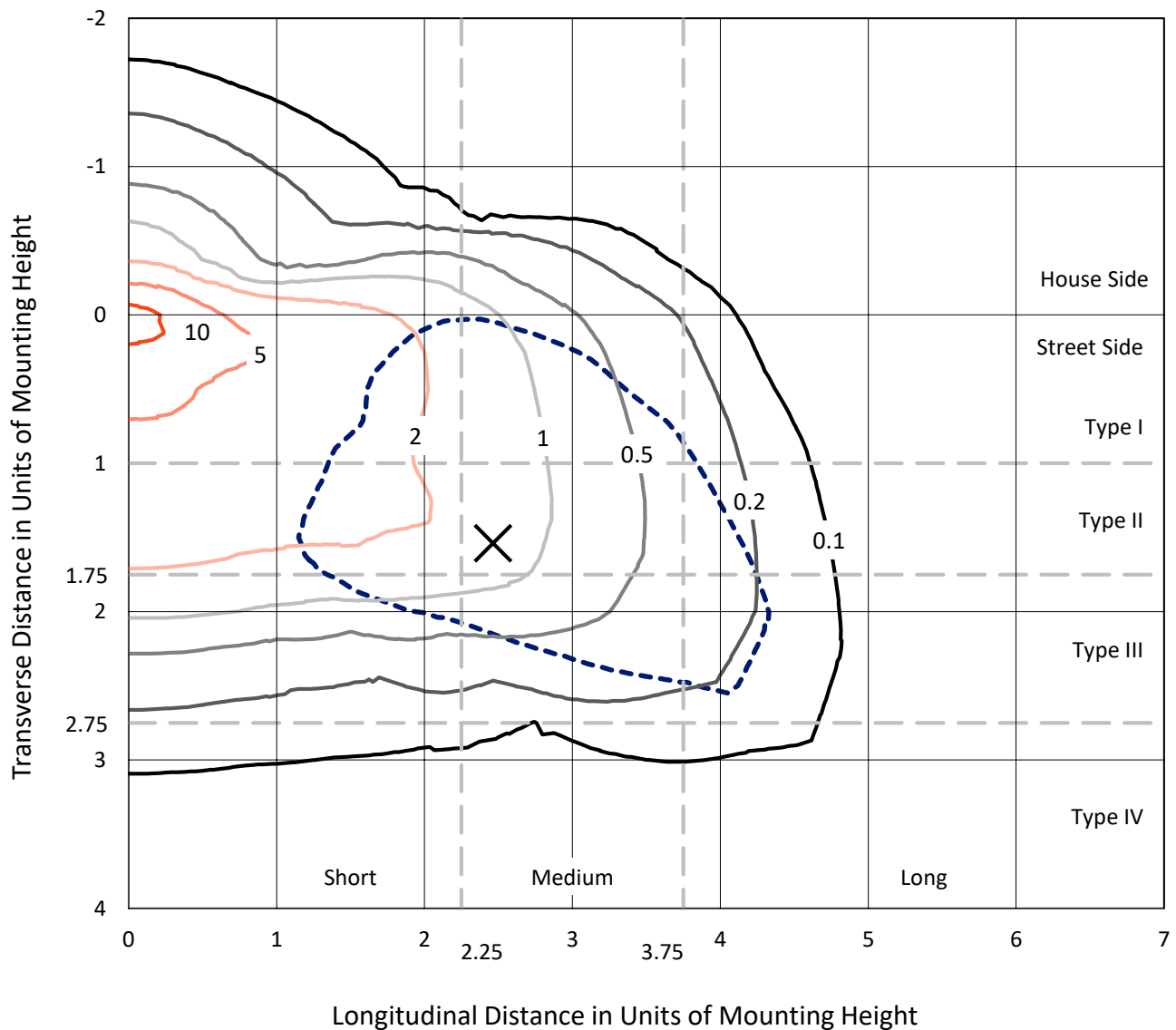


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Iso-Footcandle Lines of Horizontal Illumination

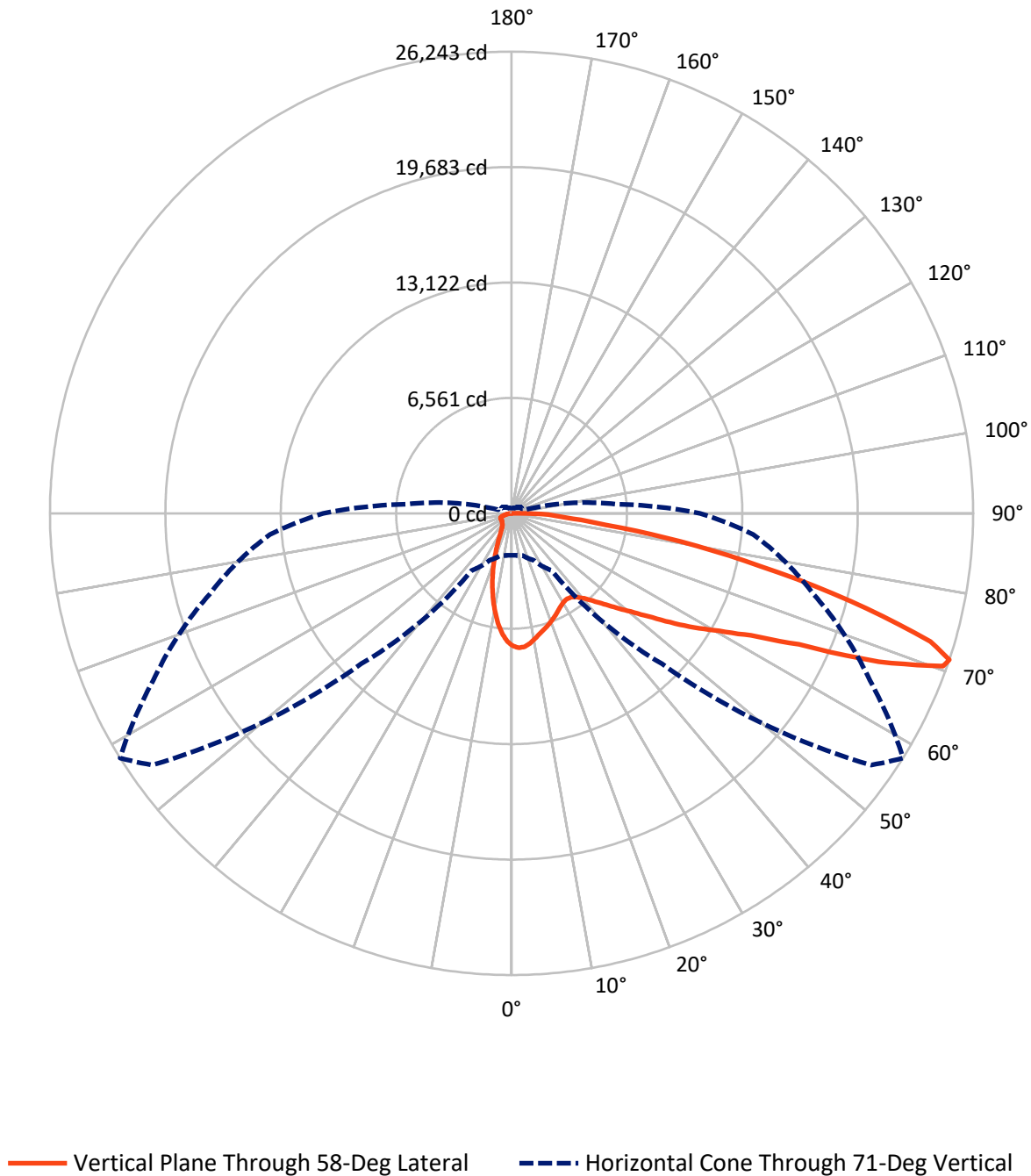
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4060.9	0.0	4060.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	23101.1	0.0	23101.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	27162.0	0.0	27162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.2	2.4
10°-20°	1443.7	5.3
20°-30°	1834.8	6.8
30°-40°	2337.1	8.6
40°-50°	3314.1	12.2
50°-60°	5128.7	18.9
60°-70°	6982.1	25.7
70°-80°	4657.9	17.1
80°-90°	814.4	3.0
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°	27162.0	100.0
0°-180°	27162.0	100.0

Coefficient of Utilization



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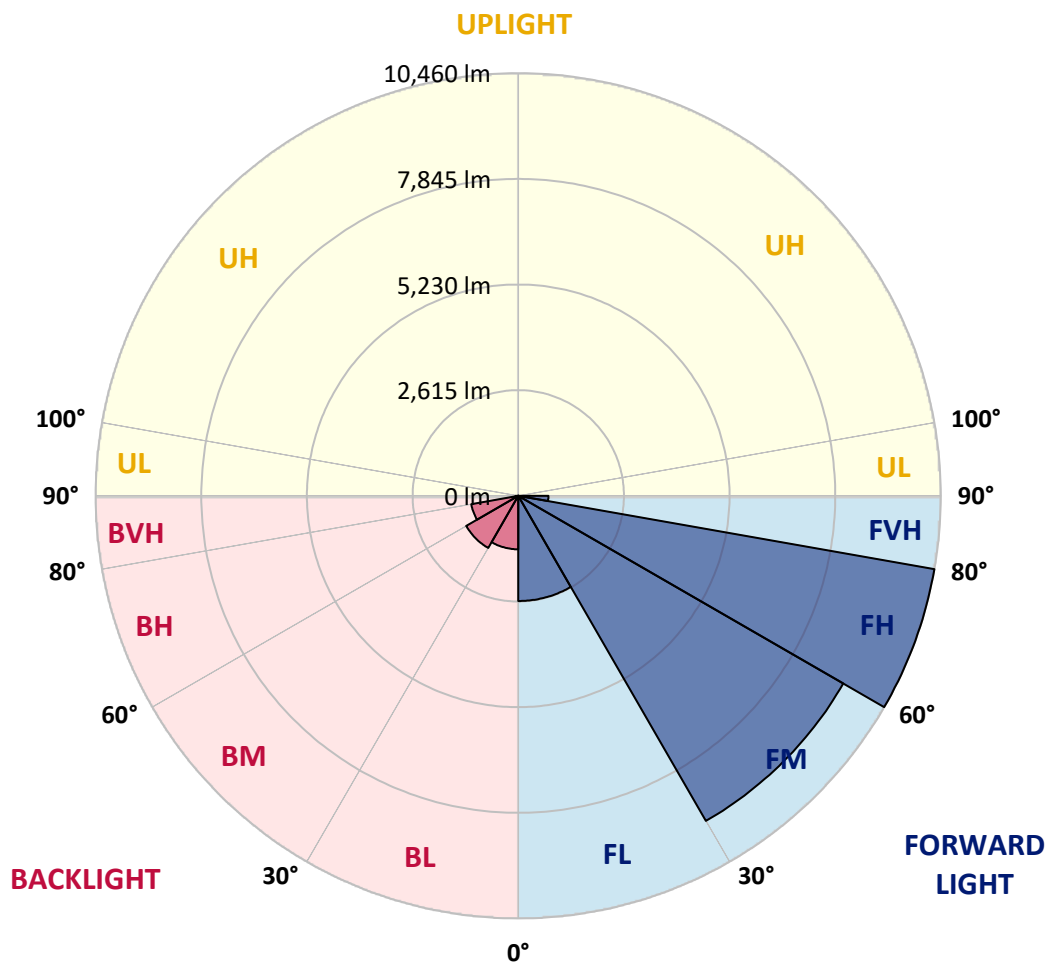
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2603.9	9.6			
FM	(30°-60°)	9290.7	34.2			
FH	(60°-80°)	10459.8	38.5			G4/12000
FVH	(80°-90°)	746.7	2.7			G4/750
BL	(0°-30°)	1323.7	4.9	B3/2500		
BM	(30°-60°)	1489.2	5.5	B2/2500		
BH	(60°-80°)	1180.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	67.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7
2.5°	7725.3	7714.9	7718.7	7711.1	7693.2	7675.2	7648.7	7653.4	7616.5	7561.6	7493.5
5°	7579.6	7575.8	7604.2	7620.3	7633.6	7623.1	7615.6	7625.0	7571.1	7495.4	7377.1
7.5°	7274.0	7232.4	7268.3	7322.3	7373.4	7412.2	7463.2	7469.9	7435.8	7356.3	7201.2
10°	6839.7	6800.0	6853.0	6937.2	7039.4	7132.1	7235.2	7254.1	7260.8	7188.9	7000.6
12.5°	6389.4	6359.1	6412.1	6530.3	6699.7	6842.6	7007.2	7035.6	7094.2	7046.0	6815.1
15°	5986.3	5974.9	6039.3	6155.7	6350.6	6569.1	6806.6	6858.7	6958.0	6941.9	6670.4
17.5°	5638.1	5635.3	5684.5	5806.5	6022.3	6298.5	6607.0	6695.0	6842.6	6861.5	6551.2
20°	5378.9	5373.2	5407.3	5497.1	5719.5	6032.7	6391.3	6512.4	6725.2	6791.5	6428.2
22.5°	5239.8	5238.8	5239.8	5282.4	5464.0	5755.4	6181.2	6328.8	6610.8	6735.7	6291.9
25°	5216.1	5213.3	5192.5	5187.7	5290.9	5523.6	5973.1	6135.8	6502.0	6696.9	6162.3
27.5°	5277.6	5281.4	5254.0	5209.5	5230.3	5371.3	5792.3	5966.4	6414.9	6689.3	6072.4
30°	5405.4	5403.5	5379.8	5333.5	5292.8	5314.5	5663.7	5837.8	6356.2	6722.4	6010.9
32.5°	5546.3	5556.7	5552.0	5526.5	5465.9	5378.9	5624.9	5795.2	6339.2	6801.9	5984.4
35°	5715.7	5727.1	5761.1	5781.0	5710.0	5570.0	5708.1	5855.7	6388.4	6951.4	6027.0
37.5°	5876.5	5905.9	6001.4	6085.6	6025.1	5869.0	5929.5	6034.6	6540.7	7187.0	6141.5
40°	6062.0	6087.5	6243.7	6422.5	6413.0	6251.2	6286.2	6356.2	6809.5	7524.7	6348.7
42.5°	6244.6	6295.7	6521.8	6775.4	6848.2	6705.4	6761.2	6798.1	7187.9	7972.3	6710.1
45°	6487.8	6542.6	6856.8	7162.4	7332.7	7252.3	7341.2	7355.4	7663.8	8581.6	7235.2
47.5°	6855.8	6918.3	7284.4	7605.2	7865.4	7873.9	8020.5	8014.9	8258.0	9278.9	7896.6
50°	7429.2	7519.1	7819.0	8118.9	8434.9	8610.9	8806.8	8779.3	8970.5	10021.6	8658.2
52.5°	8180.4	8222.1	8444.4	8665.8	9058.5	9453.0	9734.0	9709.4	9778.5	10785.2	9523.0
55°	8959.1	8990.3	9082.1	9203.2	9731.2	10374.6	10968.7	10929.9	10754.9	11578.1	10377.4
57.5°	9659.3	9722.7	9786.0	9836.2	10408.6	11337.7	12231.8	12234.7	11814.6	12433.4	11260.2
60°	9768.1	9823.9	10243.0	10638.5	11567.6	12622.6	13583.9	13555.5	12911.2	13361.6	12244.1
62.5°	8634.6	8760.4	9460.6	10512.7	12684.1	14972.8	15308.7	15273.7	14222.6	14505.5	13389.9
65°	6187.8	6330.7	7175.6	8756.6	12142.9	17562.5	18421.6	17950.4	16010.8	15912.4	14731.6
67.5°	3569.8	3603.9	3970.1	5239.8	9245.8	17697.8	23170.3	22510.8	18787.7	17508.5	15388.2
70°	2639.8	2638.8	2725.9	3224.5	5003.2	14444.0	25428.8	26020.1	21711.3	18033.6	14460.0
71°	2387.1	2390.0	2487.4	2935.0	3962.5	12089.9	24949.1	26243.4	22481.5	17774.4	13788.3
72.5°	2041.8	2051.3	2186.6	2632.2	3333.3	8337.5	22882.7	24903.7	22846.7	17134.8	12737.1
75°	1548.9	1570.6	1757.9	2218.7	3046.6	4228.4	16794.2	19886.2	20295.9	15119.5	9464.4
77.5°	1105.1	1129.7	1341.6	1865.8	2896.2	3186.6	11246.9	14505.5	14935.9	9689.5	4269.0
80°	698.3	727.6	887.5	1484.5	2721.1	3025.8	7067.8	9750.1	8144.5	3100.5	1086.2
82.5°	409.7	432.4	550.7	969.8	2222.5	2914.1	4158.3	5404.4	3169.6	936.7	493.9
85°	237.5	247.9	343.5	617.8	1614.1	2750.5	3055.1	3021.1	1375.7	457.9	233.7
87.5°	110.7	123.0	203.4	322.6	896.0	1993.5	2414.6	2086.3	855.3	214.8	109.8
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°	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7	7525.7
2.5°	7460.4	7444.3	7377.1	7317.5	7255.1	7173.7	7083.8	7072.5	7017.6	7028.0	7009.1
5°	7312.8	7272.1	7110.3	6963.7	6790.5	6635.4	6466.9	6389.4	6277.7	6270.1	6241.8
7.5°	7101.8	7026.1	6775.4	6497.2	6219.1	5954.1	5692.0	5519.8	5343.9	5269.1	5262.5
10°	6864.3	6735.7	6366.7	5955.1	5553.9	5166.9	4792.3	4515.0	4265.3	4147.0	4142.3
12.5°	6639.1	6449.0	5942.8	5382.7	4833.9	4332.4	3818.7	3454.4	3141.2	3036.2	2991.7
15°	6448.0	6180.3	5530.3	4814.0	4147.9	3451.6	2866.8	2483.6	2194.1	2093.8	2074.9
17.5°	6262.6	5918.2	5107.3	4239.7	3434.5	2669.1	2083.4	1798.6	1644.4	1603.7	1602.8
20°	6078.1	5648.5	4665.5	3652.1	2744.8	1996.4	1601.8	1474.1	1422.1	1417.3	1409.8
22.5°	5869.0	5362.8	4200.9	3062.7	2142.1	1569.7	1361.5	1310.4	1303.8	1320.8	1320.8
25°	5673.1	5078.9	3729.7	2485.5	1666.2	1309.5	1215.8	1205.4	1223.4	1253.7	1256.5
27.5°	5490.5	4805.5	3269.9	1972.7	1335.0	1153.4	1114.6	1126.9	1159.0	1194.0	1195.0
30°	5340.1	4547.2	2823.3	1554.5	1127.8	1037.0	1030.4	1055.0	1090.0	1117.4	1124.0
32.5°	5223.7	4326.8	2391.9	1249.9	992.5	949.9	955.6	976.4	998.2	1013.3	1023.7
35°	5169.8	4137.5	1993.5	1054.0	906.4	882.8	890.3	901.7	911.1	922.5	931.0
37.5°	5179.2	3990.9	1637.8	932.0	848.7	836.4	836.4	836.4	836.4	842.1	843.0
40°	5267.2	3906.7	1348.3	854.4	809.9	796.7	786.3	776.8	769.2	773.0	771.1
42.5°	5492.4	3899.1	1136.3	805.2	778.7	756.9	736.1	722.9	713.4	717.2	719.1
45°	5874.7	3993.7	993.5	770.2	749.4	716.2	689.7	675.6	668.9	681.2	683.1
47.5°	6369.5	4200.0	906.4	744.6	721.9	678.4	650.0	636.8	638.7	656.6	661.4
50°	7007.2	4534.9	864.8	728.5	703.0	646.2	616.9	605.5	611.2	636.8	642.4
52.5°	7707.4	5017.4	869.5	723.8	690.7	622.6	591.3	578.1	587.6	611.2	615.9
55°	8515.4	5597.4	948.0	730.4	672.7	607.4	570.5	547.8	555.4	577.2	580.9
57.5°	9413.3	6261.6	1106.1	728.5	650.0	593.2	548.8	514.7	520.4	533.6	537.4
60°	10348.1	7064.0	1351.1	734.2	639.6	576.2	519.4	476.9	475.0	486.3	488.2
62.5°	11470.2	7992.1	1631.2	738.0	646.2	554.4	480.6	439.0	433.3	436.2	438.1
65°	12626.4	8663.9	1526.1	722.9	667.0	536.5	446.6	402.1	391.7	389.8	390.8
67.5°	12662.3	7943.9	1070.1	692.6	675.6	527.0	421.0	370.9	353.9	347.2	346.3
70°	11355.7	6453.7	833.6	660.4	641.5	511.9	397.4	345.3	319.8	309.4	308.4
71°	10718.0	5940.9	790.0	644.3	615.9	496.7	387.0	334.0	307.5	296.1	294.3
72.5°	9717.9	5325.9	737.1	618.8	566.7	457.9	367.1	317.9	290.5	277.2	274.4
75°	6974.1	3482.8	633.0	551.6	469.3	365.2	321.7	285.7	262.1	246.0	244.1
77.5°	2687.1	1386.1	478.8	458.9	359.5	285.7	264.9	246.9	229.9	213.8	212.9
80°	830.7	619.7	349.1	345.3	260.2	212.9	206.3	201.5	194.9	177.9	174.1
82.5°	443.7	355.8	240.3	223.3	170.3	141.9	149.5	151.4	152.3	134.4	132.5
85°	211.9	188.3	135.3	126.8	99.3	79.5	91.8	99.3	100.3	82.3	76.6
87.5°	101.2	98.4	63.4	48.3	36.9	26.5	32.2	39.7	43.5	31.2	27.4
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)