

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: P319841

Luminaire Tested: **GAN-SA7B-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319841
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-SA7B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 32123 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

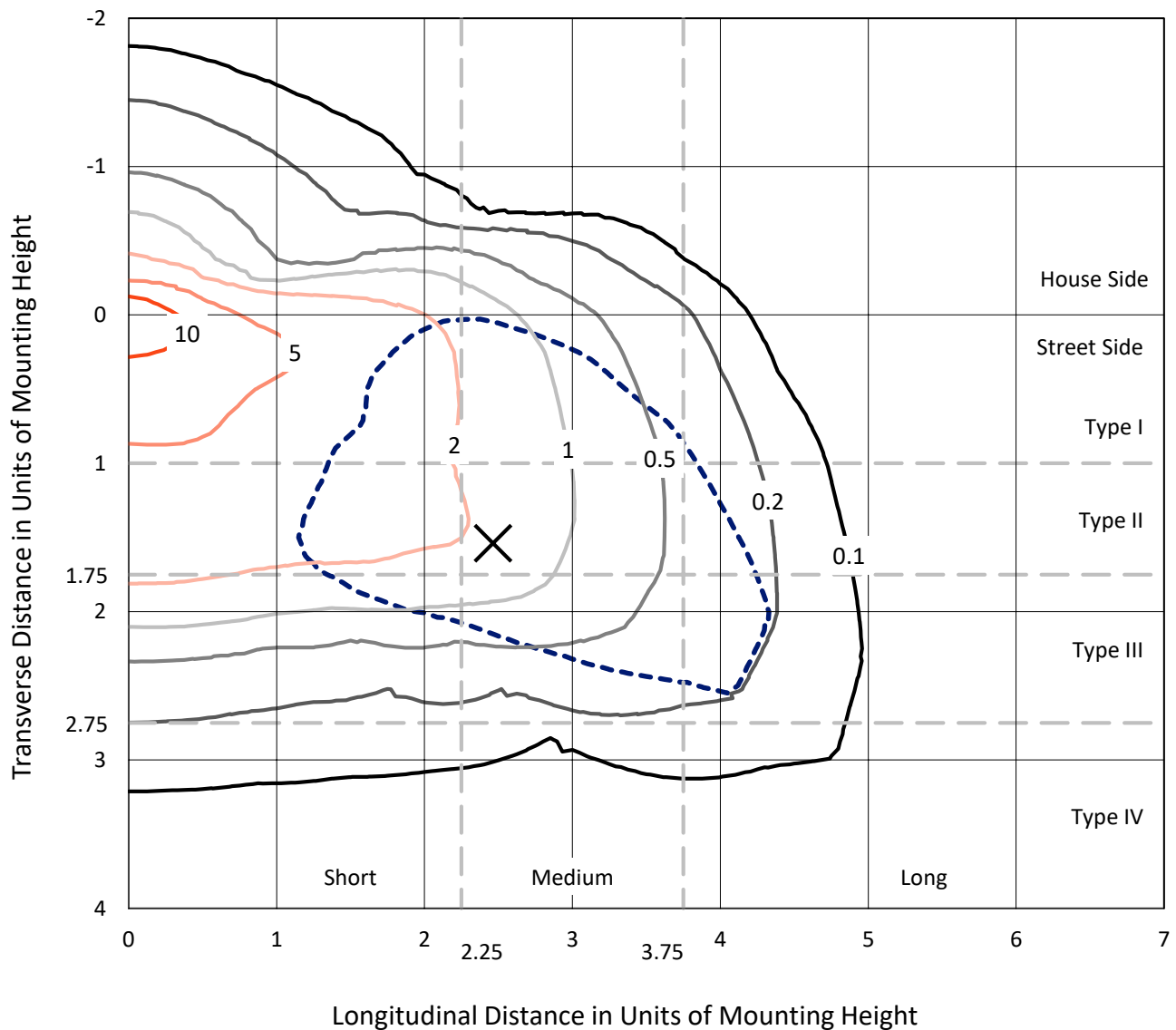
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319841
 CATALOG NUMBER: GAN-SA7B-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

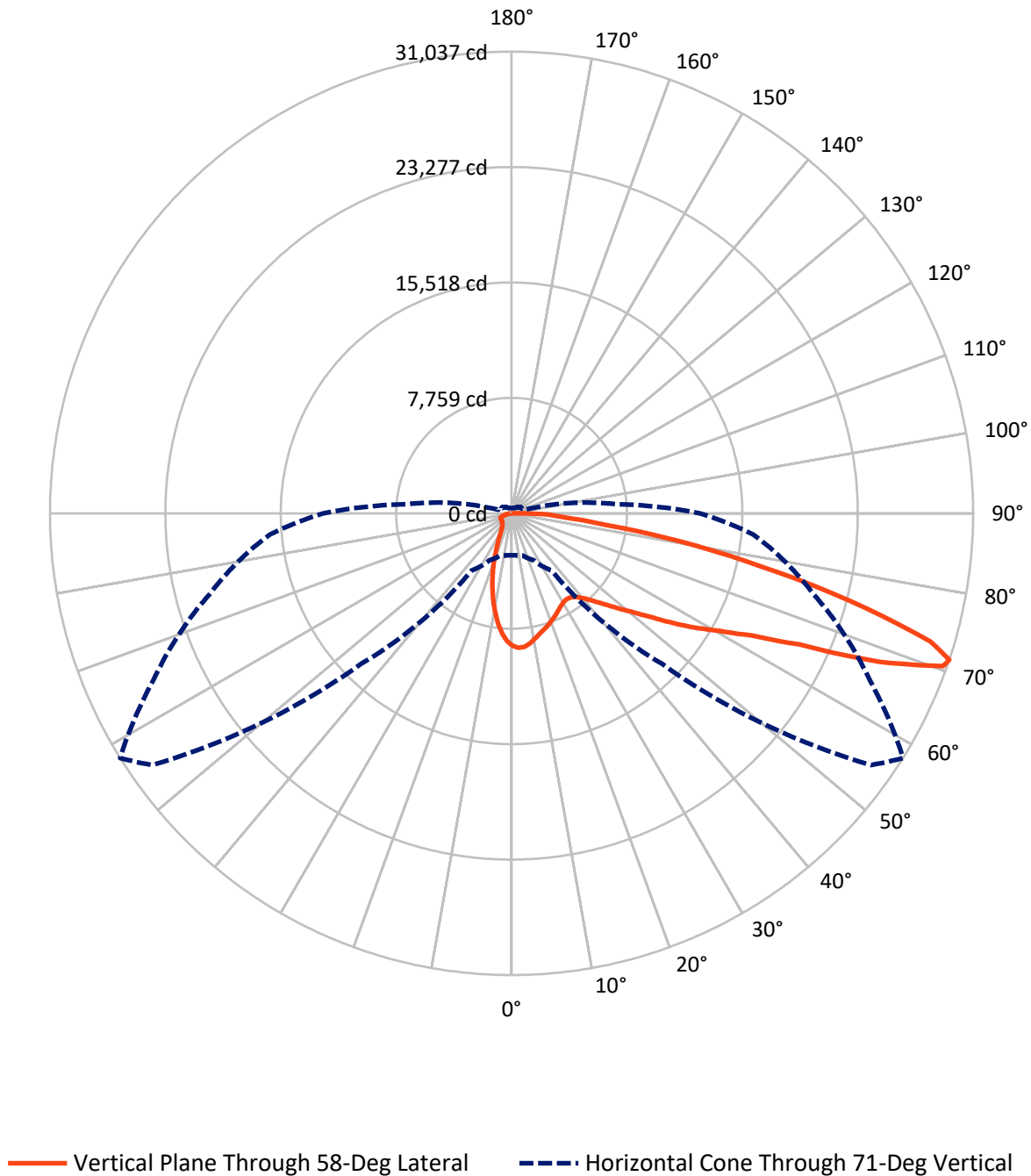
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P319841
CATALOG NUMBER: GAN-SA7B-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P319841

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4802.6	0.0	4802.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	27320.4	0.0	27320.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	32123.0	0.0	32123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.8	2.4
10°-20°	1707.3	5.3
20°-30°	2169.9	6.8
30°-40°	2764.0	8.6
40°-50°	3919.4	12.2
50°-60°	6065.5	18.9
60°-70°	8257.4	25.7
70°-80°	5508.6	17.1
80°-90°	963.1	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°	32123.0	100.0
0°-180°	32123.0	100.0

Coefficient of Utilization



REPORT NUMBER: P319841

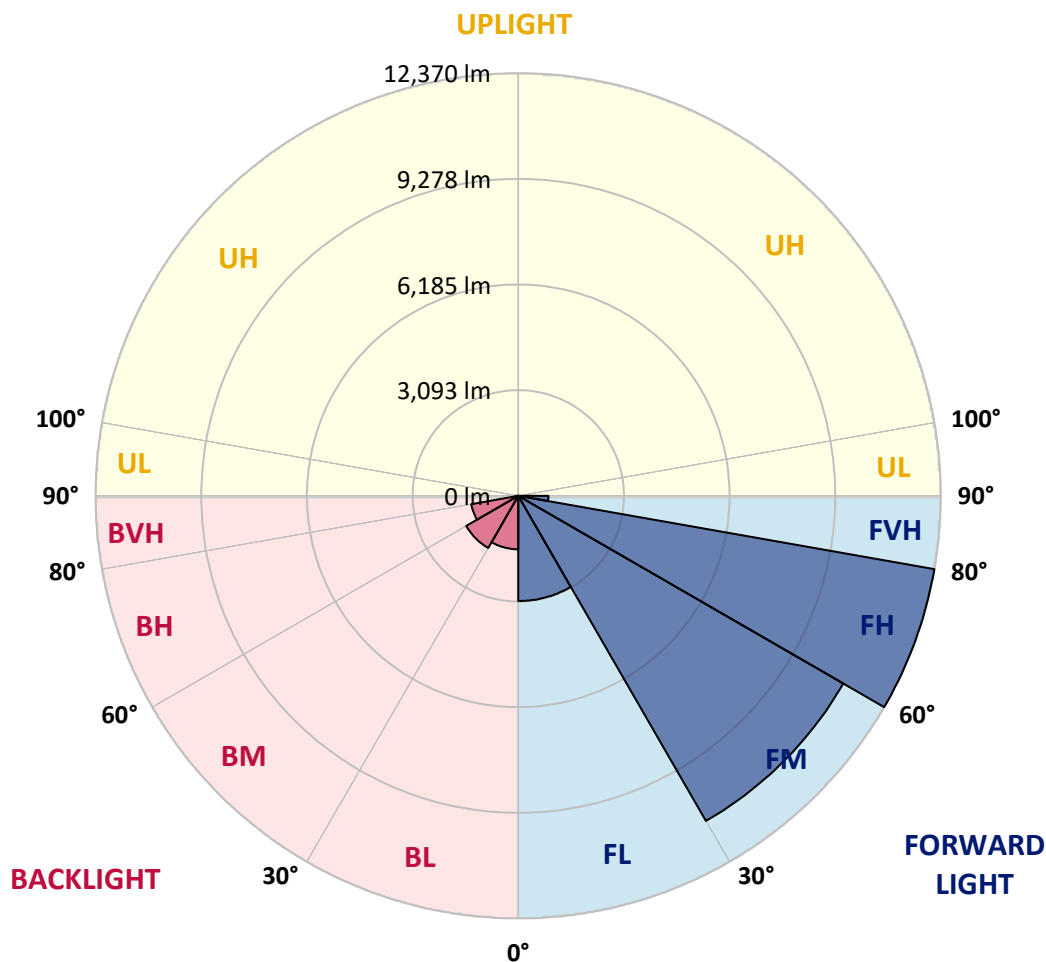
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3079.5	9.6			
FM	(30°-60°)	10987.6	34.2			
FH	(60°-80°)	12370.2	38.5			G5
FVH	(80°-90°)	883.1	2.7			G5
BL	(0°-30°)	1565.5	4.9	B3/2500		
BM	(30°-60°)	1761.3	5.5	B2/2500		
BH	(60°-80°)	1395.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	80.0	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-G5

Type III Medium





REPORT NUMBER: P319841

CATALOG NUMBER: GAN-SA7B-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2
2.5°	9136.3	9124.0	9128.5	9119.5	9098.3	9077.0	9045.7	9051.3	9007.6	8942.7	8862.2
5°	8964.0	8959.5	8993.1	9012.1	9027.8	9015.5	9006.5	9017.7	8953.9	8864.4	8724.5
7.5°	8602.6	8553.3	8595.9	8659.6	8720.1	8765.9	8826.4	8834.2	8793.9	8699.9	8516.4
10°	8089.0	8042.0	8104.6	8204.2	8325.1	8434.7	8556.7	8579.1	8586.9	8501.9	8279.2
12.5°	7556.3	7520.5	7583.2	7723.1	7923.4	8092.3	8287.0	8320.6	8390.0	8332.9	8059.9
15°	7079.7	7066.2	7142.3	7280.0	7510.5	7768.9	8049.8	8111.4	8228.8	8209.8	7888.7
17.5°	6667.9	6664.5	6722.7	6867.1	7122.2	7448.9	7813.7	7917.8	8092.3	8114.7	7747.7
20°	6361.3	6354.6	6394.9	6501.2	6764.1	7134.5	7558.6	7701.8	7953.6	8031.9	7602.2
22.5°	6196.8	6195.7	6196.8	6247.2	6462.0	6806.6	7310.2	7484.7	7818.2	7965.9	7441.1
25°	6168.8	6165.5	6140.9	6135.3	6257.2	6532.5	7064.0	7256.5	7689.5	7920.0	7287.8
27.5°	6241.6	6246.0	6213.6	6161.0	6185.6	6352.3	6850.3	7056.2	7586.6	7911.1	7181.5
30°	6392.6	6390.4	6362.4	6307.6	6259.5	6285.2	6698.1	6904.0	7517.2	7950.2	7108.8
32.5°	6559.4	6571.7	6566.1	6535.9	6464.2	6361.3	6652.2	6853.6	7497.0	8044.2	7077.4
35°	6759.6	6773.1	6813.4	6836.9	6752.9	6587.3	6750.7	6925.3	7555.2	8221.0	7127.8
37.5°	6949.9	6984.6	7097.6	7197.2	7125.5	6940.9	7012.5	7136.7	7735.4	8499.6	7263.2
40°	7169.2	7199.4	7384.0	7595.5	7584.3	7393.0	7434.4	7517.2	8053.2	8899.1	7508.2
42.5°	7385.1	7445.6	7713.0	8012.9	8099.0	7930.1	7996.1	8039.7	8500.7	9428.4	7935.7
45°	7672.7	7737.6	8109.1	8470.5	8672.0	8576.8	8682.0	8698.8	9063.6	10149.0	8556.7
47.5°	8108.0	8181.8	8614.9	8994.2	9301.9	9312.0	9485.4	9478.7	9766.3	10973.7	9338.9
50°	8786.1	8892.4	9247.1	9601.8	9975.5	10183.7	10415.3	10382.8	10608.9	11852.0	10239.6
52.5°	9674.5	9723.8	9986.7	10248.6	10712.9	11179.5	11511.9	11482.8	11564.5	12755.0	11262.3
55°	10595.4	10632.4	10740.9	10884.1	11508.5	12269.4	12972.1	12926.2	12719.2	13692.7	12272.8
57.5°	11423.5	11498.4	11573.4	11632.7	12309.7	13408.5	14465.9	14469.3	13972.5	14704.3	13316.8
60°	11552.2	11618.2	12113.9	12581.6	13680.4	14928.1	16064.9	16031.4	15269.3	15802.0	14480.5
62.5°	10211.6	10360.5	11188.5	12432.8	15000.8	17707.6	18104.8	18063.4	16820.2	17154.8	15835.5
65°	7318.0	7487.0	8486.2	10356.0	14360.7	20770.2	21786.2	21228.9	18935.1	18818.7	17422.2
67.5°	4221.8	4262.1	4695.2	6196.8	10934.5	20930.2	27402.2	26622.3	22219.2	20706.4	18198.8
70°	3121.9	3120.8	3223.7	3813.4	5917.1	17082.1	30073.2	30772.6	25676.8	21327.4	17101.1
71°	2823.1	2826.5	2941.7	3471.0	4686.2	14298.1	29505.9	31036.6	26587.6	21020.8	16306.6
72.5°	2414.7	2425.9	2585.9	3113.0	3942.1	9860.3	27062.1	29452.2	27019.6	20264.4	15063.5
75°	1831.7	1857.5	2079.0	2624.0	3603.1	5000.6	19861.6	23518.3	24002.8	17881.0	11193.0
77.5°	1306.9	1336.0	1586.7	2206.6	3425.1	3768.7	13301.1	17154.8	17663.9	11459.3	5048.8
80°	825.8	860.5	1049.6	1755.7	3218.1	3578.4	8358.6	11530.9	9632.0	3666.8	1284.6
82.5°	484.5	511.4	651.2	1146.9	2628.4	3446.4	4917.8	6391.5	3748.5	1107.8	584.1
85°	280.9	293.2	406.2	730.7	1908.9	3252.8	3613.1	3572.8	1627.0	541.6	276.4
87.5°	130.9	145.5	240.6	381.6	1059.7	2357.7	2855.6	2467.3	1011.5	254.0	129.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319841

CATALOG NUMBER: GAN-SA7B-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2	8900.2
2.5°	8823.0	8804.0	8724.5	8654.0	8580.2	8484.0	8377.7	8364.2	8299.3	8311.6	8289.3
5°	8648.5	8600.3	8409.0	8235.6	8030.8	7847.3	7648.1	7556.3	7424.3	7415.4	7381.8
7.5°	8398.9	8309.4	8012.9	7683.9	7354.9	7041.6	6731.7	6528.0	6319.9	6231.5	6223.7
10°	8118.1	7965.9	7529.5	7042.7	6568.3	6110.6	5667.5	5339.7	5044.3	4904.4	4898.8
12.5°	7851.8	7626.8	7028.2	6365.8	5716.8	5123.7	4516.1	4085.3	3715.0	3590.7	3538.2
15°	7625.7	7309.1	6540.3	5693.3	4905.5	4082.0	3390.5	2937.3	2594.9	2476.3	2453.9
17.5°	7406.4	6999.1	6040.2	5014.1	4061.8	3156.6	2464.0	2127.1	1944.8	1896.6	1895.5
20°	7188.2	6680.2	5517.6	4319.2	3246.1	2361.0	1894.4	1743.3	1681.8	1676.2	1667.3
22.5°	6940.9	6342.3	4968.2	3622.1	2533.3	1856.4	1610.2	1549.8	1541.9	1562.1	1562.1
25°	6709.3	6006.6	4410.9	2939.5	1970.5	1548.6	1437.9	1425.6	1446.8	1482.6	1486.0
27.5°	6493.3	5683.2	3867.1	2333.0	1578.9	1364.0	1318.1	1332.7	1370.7	1412.1	1413.2
30°	6315.4	5377.7	3339.0	1838.5	1333.8	1226.4	1218.5	1247.6	1289.0	1321.5	1329.3
32.5°	6177.8	5117.0	2828.7	1478.1	1173.8	1123.4	1130.2	1154.8	1180.5	1198.4	1210.7
35°	6114.0	4893.2	2357.7	1246.5	1072.0	1044.0	1052.9	1066.4	1077.6	1091.0	1101.1
37.5°	6125.2	4719.8	1936.9	1102.2	1003.7	989.2	989.2	989.2	989.2	995.9	997.0
40°	6229.3	4620.2	1594.5	1010.4	957.8	942.2	929.9	918.7	909.7	914.2	912.0
42.5°	6495.6	4611.2	1343.9	952.2	920.9	895.2	870.6	854.9	843.7	848.2	850.4
45°	6947.6	4723.1	1174.9	910.8	886.2	847.1	815.7	798.9	791.1	805.7	807.9
47.5°	7532.8	4967.1	1072.0	880.6	853.8	802.3	768.7	753.1	755.3	776.6	782.2
50°	8287.0	5363.2	1022.7	861.6	831.4	764.3	729.6	716.1	722.8	753.1	759.8
52.5°	9115.1	5933.9	1028.3	856.0	816.8	736.3	699.4	683.7	694.9	722.8	728.4
55°	10070.7	6619.8	1121.2	863.8	795.6	718.4	674.7	647.9	656.8	682.6	687.0
57.5°	11132.5	7405.3	1308.1	861.6	768.7	701.6	649.0	608.7	615.4	631.1	635.6
60°	12238.1	8354.2	1597.9	868.3	756.4	681.4	614.3	564.0	561.7	575.1	577.4
62.5°	13565.2	9451.9	1929.1	872.8	764.3	655.7	568.4	519.2	512.5	515.8	518.1
65°	14932.5	10246.3	1804.9	854.9	788.9	634.5	528.1	475.6	463.2	461.0	462.1
67.5°	14975.1	9394.8	1265.5	819.1	798.9	623.3	497.9	438.6	418.5	410.7	409.5
70°	13429.8	7632.4	985.8	781.0	758.7	605.4	470.0	408.4	378.2	365.9	364.8
71°	12675.6	7026.0	934.3	762.0	728.4	587.5	457.7	395.0	363.7	350.2	348.0
72.5°	11492.9	6298.6	871.7	731.8	670.3	541.6	434.2	376.0	343.5	327.9	324.5
75°	8247.9	4118.9	748.6	652.4	555.0	431.9	380.4	337.9	310.0	290.9	288.7
77.5°	3177.9	1639.3	566.2	542.7	425.2	337.9	313.3	292.0	271.9	252.9	251.8
80°	982.4	732.9	412.9	408.4	307.7	251.8	243.9	238.3	230.5	210.4	205.9
82.5°	524.8	420.7	284.2	264.1	201.4	167.8	176.8	179.0	180.2	158.9	156.7
85°	250.6	222.7	160.0	149.9	117.5	94.0	108.5	117.5	118.6	97.3	90.6
87.5°	119.7	116.4	75.0	57.1	43.6	31.3	38.0	47.0	51.5	36.9	32.4
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)