

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: P268836

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 37356.2 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

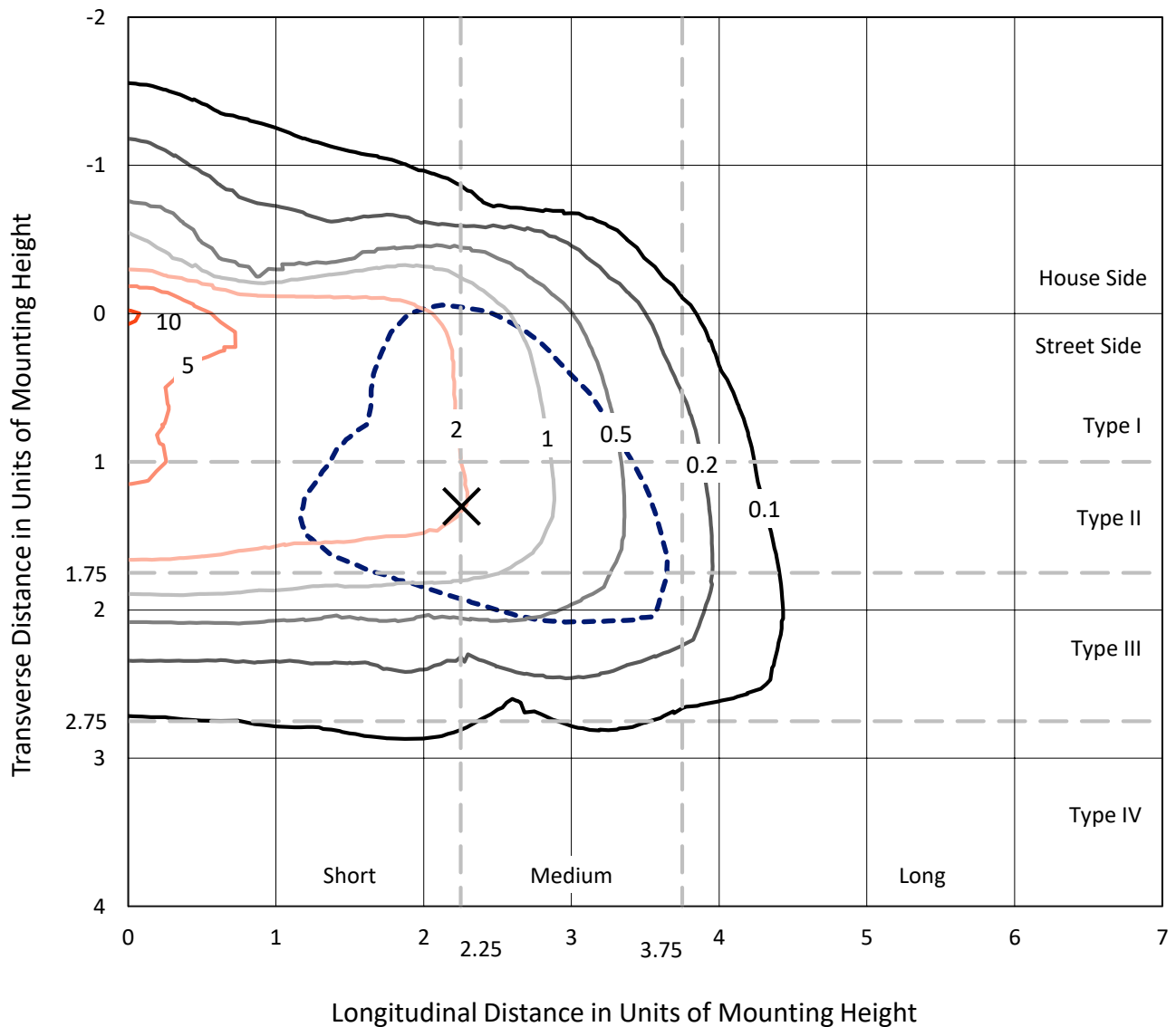
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

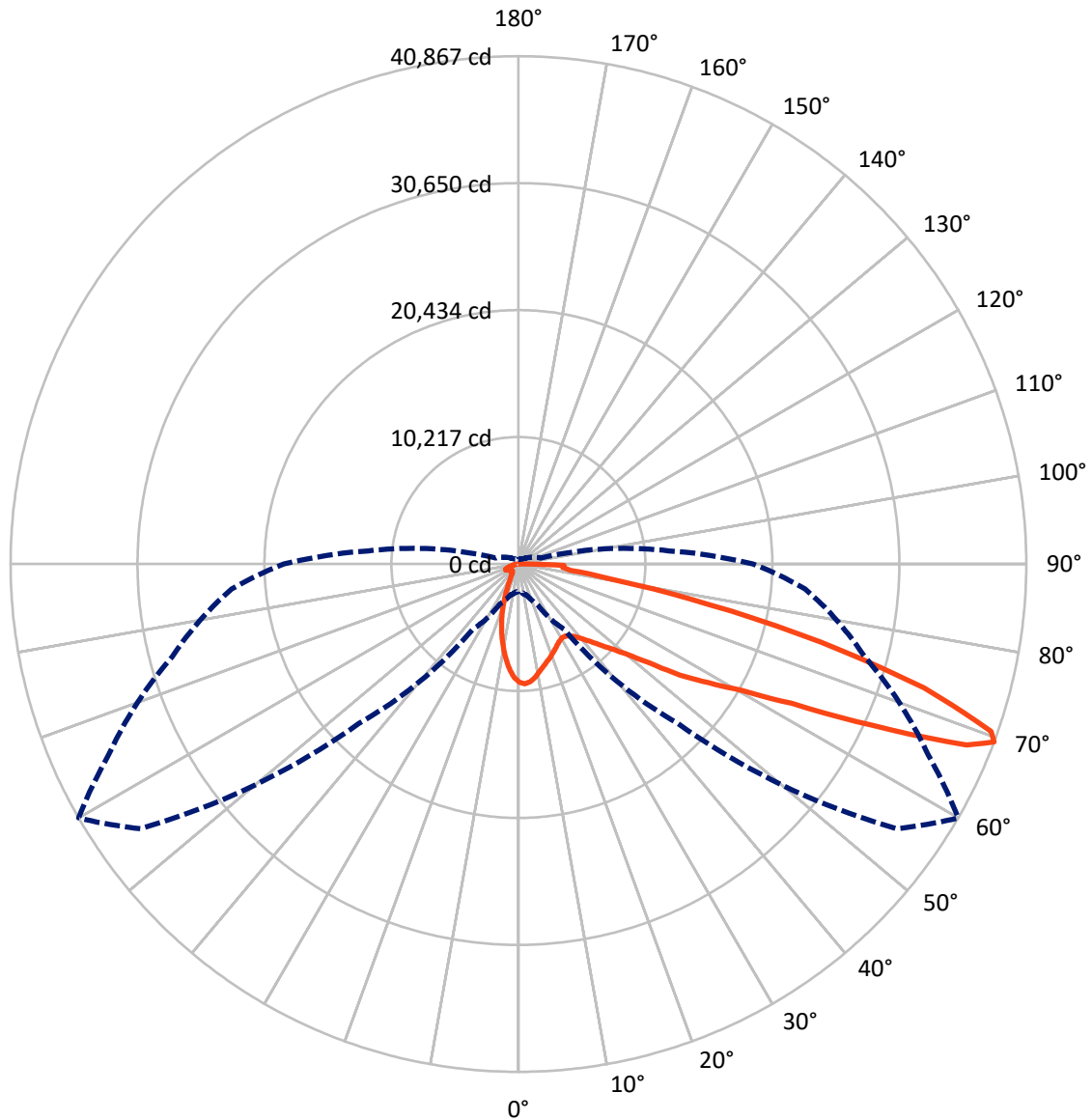
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5314.6	0.0	5314.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	32041.6	0.0	32041.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	37356.2	0.0	37356.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.9	2.2
10°-20°	1714.8	4.6
20°-30°	2185.0	5.8
30°-40°	3003.8	8.0
40°-50°	4873.9	13.0
50°-60°	7816.5	20.9
60°-70°	10403.2	27.8
70°-80°	5616.9	15.0
80°-90°	937.2	2.5
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°	37356.2	100.0
0°-180°	37356.2	100.0

Coefficient of Utilization



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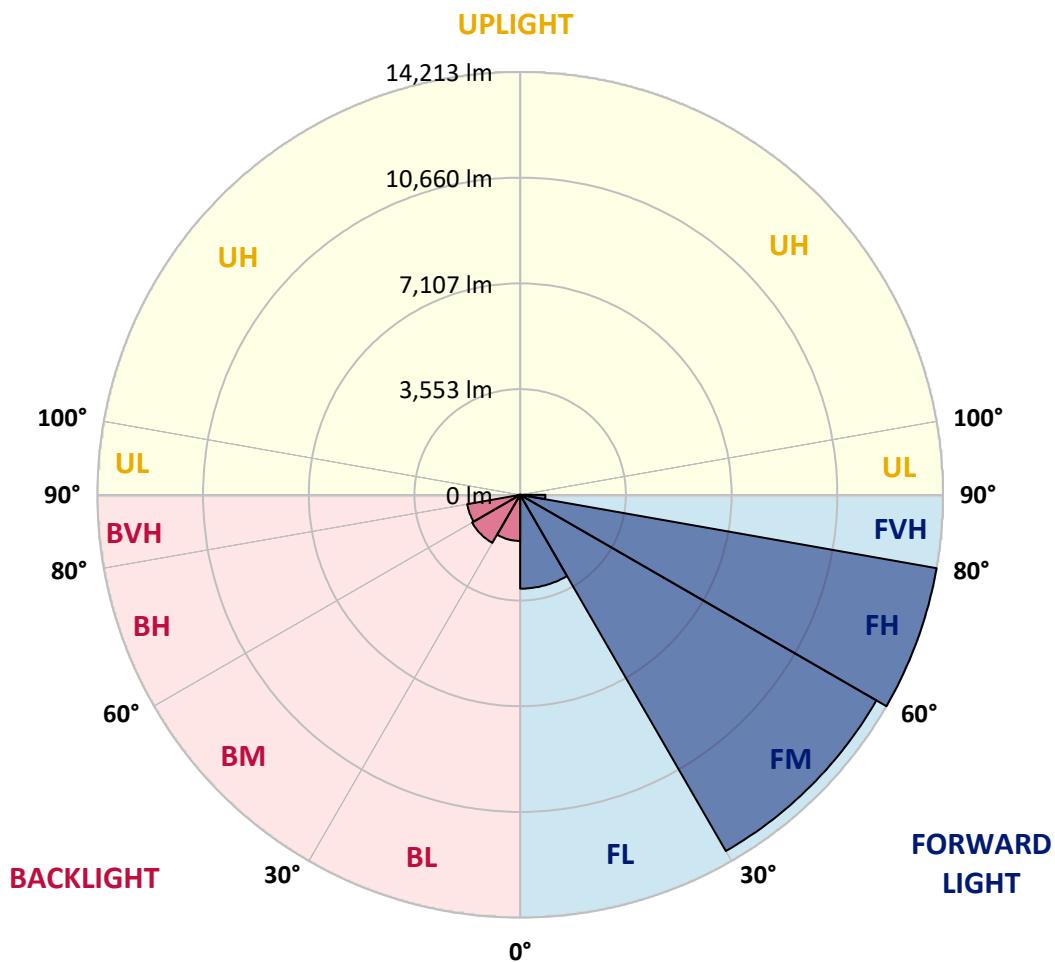
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3154.2	8.4			
FM (30°-60°)	13827.1	37.0			
FH (60°-80°)	14213.3	38.0			G5
FVH (80°-90°)	847.0	2.3			G5
BL (0°-30°)	1550.4	4.2	B3/2500		
BM (30°-60°)	1867.1	5.0	B2/2500		
BH (60°-80°)	1806.8	4.8	B3/2500		G3/2500
BVH (80°-90°)	90.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9
2.5°	9713.8	9735.6	9726.5	9721.0	9737.3	9711.9	9659.7	9643.5	9618.2	9558.7	9457.5
5°	9349.3	9414.2	9410.6	9459.3	9540.5	9562.2	9538.7	9542.3	9495.4	9421.5	9253.6
7.5°	8719.5	8746.5	8761.0	8867.4	9015.5	9134.5	9235.7	9268.2	9246.4	9183.3	8966.7
10°	8069.8	8091.6	8125.8	8250.4	8438.0	8602.2	8793.5	8903.6	8950.5	8939.7	8697.8
12.5°	7512.3	7533.9	7579.0	7719.9	7943.5	8145.7	8423.5	8560.7	8672.5	8739.4	8479.6
15°	7012.3	7059.3	7102.7	7265.0	7515.8	7781.2	8095.2	8268.4	8441.6	8591.4	8286.4
17.5°	6622.7	6669.6	6694.8	6842.7	7109.8	7434.7	7802.8	8006.8	8223.3	8468.7	8095.2
20°	6397.1	6418.7	6407.9	6491.0	6730.9	7075.6	7512.3	7748.7	8010.4	8353.2	7903.8
22.5°	6333.9	6335.7	6296.0	6287.0	6442.1	6732.6	7201.9	7488.8	7810.0	8277.4	7739.6
25°	6487.3	6481.9	6373.7	6285.3	6301.4	6471.1	6902.3	7236.1	7642.2	8261.2	7613.3
27.5°	6828.3	6844.5	6684.0	6518.0	6353.7	6348.3	6674.9	7026.8	7505.1	8335.2	7559.1
30°	7306.5	7333.7	7162.1	6951.1	6642.4	6388.0	6586.6	6902.3	7420.2	8488.5	7550.2
32.5°	7829.8	7858.7	7728.7	7506.9	7102.7	6633.4	6647.8	6913.1	7416.6	8703.3	7611.5
35°	8387.5	8420.0	8353.2	8165.6	7716.3	7086.4	6882.5	7088.3	7533.9	9031.6	7775.8
37.5°	9010.0	9060.6	9078.6	8900.0	8420.0	7683.7	7266.8	7420.2	7799.3	9488.3	8077.1
40°	9906.9	9977.3	9971.8	9715.6	9226.6	8490.3	7860.6	7900.2	8212.5	10098.1	8559.0
42.5°	11624.7	11639.2	11189.8	10632.2	10114.5	9338.5	8560.7	8528.1	8782.6	10870.5	9268.2
45°	13810.2	13750.5	12750.8	11673.6	11042.0	10312.9	9472.0	9313.2	9506.4	11812.5	10155.9
47.5°	15623.6	15486.5	14223.4	12736.3	12023.6	11372.2	10542.1	10264.3	10370.7	12880.7	11303.6
50°	16253.5	16150.5	15103.9	13620.6	12952.9	12664.2	11859.5	11466.1	11494.9	14154.8	12648.0
52.5°	16118.1	16103.6	15405.4	14203.6	13822.7	14021.3	13725.4	13193.0	12911.5	15569.6	14098.8
55°	15798.8	15829.4	15576.7	14882.0	14817.1	15331.4	16163.3	15769.8	14894.6	16996.9	15598.3
57.5°	14688.9	14768.3	15324.0	15735.5	16417.7	17182.8	18126.5	18014.7	17029.3	18539.8	17381.2
60°	11834.1	12018.2	13508.7	15569.6	18065.2	20458.0	20880.3	20620.5	19230.9	20454.3	19736.2
62.5°	8291.9	8483.1	10255.2	13479.8	17794.5	24157.3	25803.1	24682.4	22392.5	23274.8	22784.0
65°	4439.2	4531.2	5884.5	9353.0	15022.7	24920.6	32997.7	31292.5	27398.2	26752.2	25391.6
67.5°	2448.8	2499.3	3017.1	4722.5	9621.7	21945.0	37581.2	38869.8	33654.6	29067.4	24916.9
69°	2214.1	2261.0	2600.4	3576.6	6438.6	18144.5	37133.6	40867.3	36397.4	28838.3	23162.9
70°	2165.5	2208.8	2513.6	3296.9	5211.4	14956.1	35634.1	40356.6	37050.8	28017.1	21632.8
72.5°	1949.0	1995.9	2291.8	2961.3	4453.5	7456.3	28226.5	34121.8	33638.3	24292.7	16408.6
75°	1817.2	1860.5	2362.2	2899.9	4264.2	4718.8	18608.4	25148.1	24727.6	16993.2	8847.6
77.5°	777.8	774.2	1095.4	2454.2	4327.2	4569.0	9998.9	15710.3	14333.4	7263.2	2540.8
80°	519.7	510.6	519.7	721.8	3968.2	4594.3	5238.6	7974.3	6023.6	1851.4	1252.3
82.5°	447.5	440.3	456.6	440.3	1394.9	5243.9	4453.5	4240.7	2863.7	1052.0	620.8
85°	301.3	288.7	393.4	395.2	658.6	4659.2	5016.7	3582.0	2317.0	624.3	306.9
87.5°	144.4	140.8	229.2	279.7	386.2	1893.0	5628.3	3670.5	2336.9	319.3	146.2
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°	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9	9518.9
2.5°	9427.0	9353.0	9280.7	9194.2	9103.9	9002.9	8952.2	8901.8	8889.2	8874.6	8824.2
5°	9167.1	9062.5	8881.9	8683.5	8474.2	8270.2	8115.0	8017.6	7943.5	7905.7	7838.9
7.5°	8831.3	8677.9	8362.2	8019.3	7667.5	7346.2	7068.4	6893.4	6727.2	6649.8	6561.3
10°	8512.0	8282.8	7792.0	7286.7	6781.5	6296.0	5839.5	5516.4	5229.6	5069.0	4955.2
12.5°	8237.6	7923.7	7243.5	6559.5	5866.6	5175.4	4491.4	3953.7	3504.4	3268.0	3147.1
15°	7970.7	7591.7	6721.8	5854.0	4964.3	4024.0	3125.5	2515.6	2143.7	1995.9	1945.3
17.5°	7728.7	7243.5	6198.6	5142.9	4033.1	2896.2	2100.4	1764.8	1622.2	1573.6	1557.3
20°	7467.3	6891.4	5655.4	4399.4	3062.3	2024.7	1640.3	1492.4	1434.7	1420.2	1412.9
22.5°	7214.6	6545.1	5135.7	3603.6	2199.7	1562.7	1409.4	1347.9	1339.0	1351.6	1351.6
25°	6999.9	6234.6	4574.4	2771.8	1615.1	1315.5	1261.4	1246.9	1281.3	1328.1	1337.1
27.5°	6839.2	5980.2	3977.2	2046.3	1286.6	1144.1	1142.3	1165.7	1250.5	1340.8	1358.9
30°	6729.2	5738.5	3338.5	1476.2	1079.1	1006.9	1035.7	1086.3	1210.8	1339.0	1373.2
32.5°	6673.1	5559.8	2672.5	1142.3	923.9	884.2	932.9	994.3	1117.0	1236.1	1281.3
35°	6716.4	5428.1	2044.5	952.8	815.7	784.9	835.6	895.0	967.3	1017.8	1052.0
37.5°	6879.0	5375.6	1542.8	853.5	741.7	712.7	752.5	786.7	815.7	830.0	846.4
40°	7229.0	5431.6	1236.1	803.1	700.1	664.0	680.2	693.0	711.0	725.4	732.7
42.5°	7745.0	5599.4	1108.0	783.1	678.5	626.2	622.5	627.9	651.5	678.5	683.9
45°	8466.9	5895.3	1098.9	795.8	667.7	595.4	579.2	586.5	622.5	664.0	671.4
47.5°	9388.9	6346.5	1171.1	833.6	676.8	579.2	552.2	561.3	606.4	662.3	671.4
50°	10505.9	6976.3	1292.0	889.6	716.4	582.9	543.1	548.5	595.4	656.8	665.9
52.5°	11825.1	7869.6	1423.8	943.8	757.9	606.4	550.4	537.7	581.1	635.2	646.1
55°	13292.2	9015.5	1559.1	992.4	779.5	635.2	564.9	523.4	554.0	599.1	608.2
57.5°	15093.1	10617.8	1793.7	1039.3	794.0	655.0	579.2	508.9	519.7	552.2	559.5
60°	17531.1	12884.4	2207.0	1117.0	826.5	662.3	577.4	496.3	485.4	503.5	507.1
62.5°	20452.6	15345.7	2551.6	1214.5	880.6	667.7	566.7	487.2	456.6	456.6	460.1
65°	22186.8	16004.5	2360.3	1295.6	925.8	662.3	554.0	478.2	434.9	415.0	416.9
67.5°	20716.1	14075.4	2023.0	1311.9	923.9	637.0	534.1	462.0	413.2	382.6	380.7
69°	18873.6	12144.5	1871.3	1268.5	880.6	604.5	508.9	443.9	397.1	364.5	362.7
70°	17388.5	10966.1	1772.0	1221.7	833.6	581.1	489.0	427.7	384.4	353.8	350.1
72.5°	12642.6	7185.6	1514.1	1050.3	687.6	487.2	422.3	375.3	342.9	324.7	321.2
75°	6317.7	3426.9	1228.9	851.8	526.9	389.8	346.4	314.0	297.8	294.1	292.4
77.5°	2075.3	1570.0	878.8	635.2	391.7	305.0	279.7	256.2	252.7	263.5	259.9
80°	1140.5	913.0	557.6	420.4	267.1	223.8	220.2	207.5	213.0	231.0	227.5
82.5°	581.1	474.6	344.7	252.7	180.5	160.5	175.0	167.9	175.0	191.2	189.5
85°	286.9	259.9	218.4	153.4	119.0	102.9	124.5	130.0	133.6	146.2	146.2
87.5°	165.9	153.4	115.5	72.1	59.6	54.2	72.1	70.3	83.1	90.2	88.5
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)