

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: P383222

Luminaire Tested: **GAN-SA5C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28133.7 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

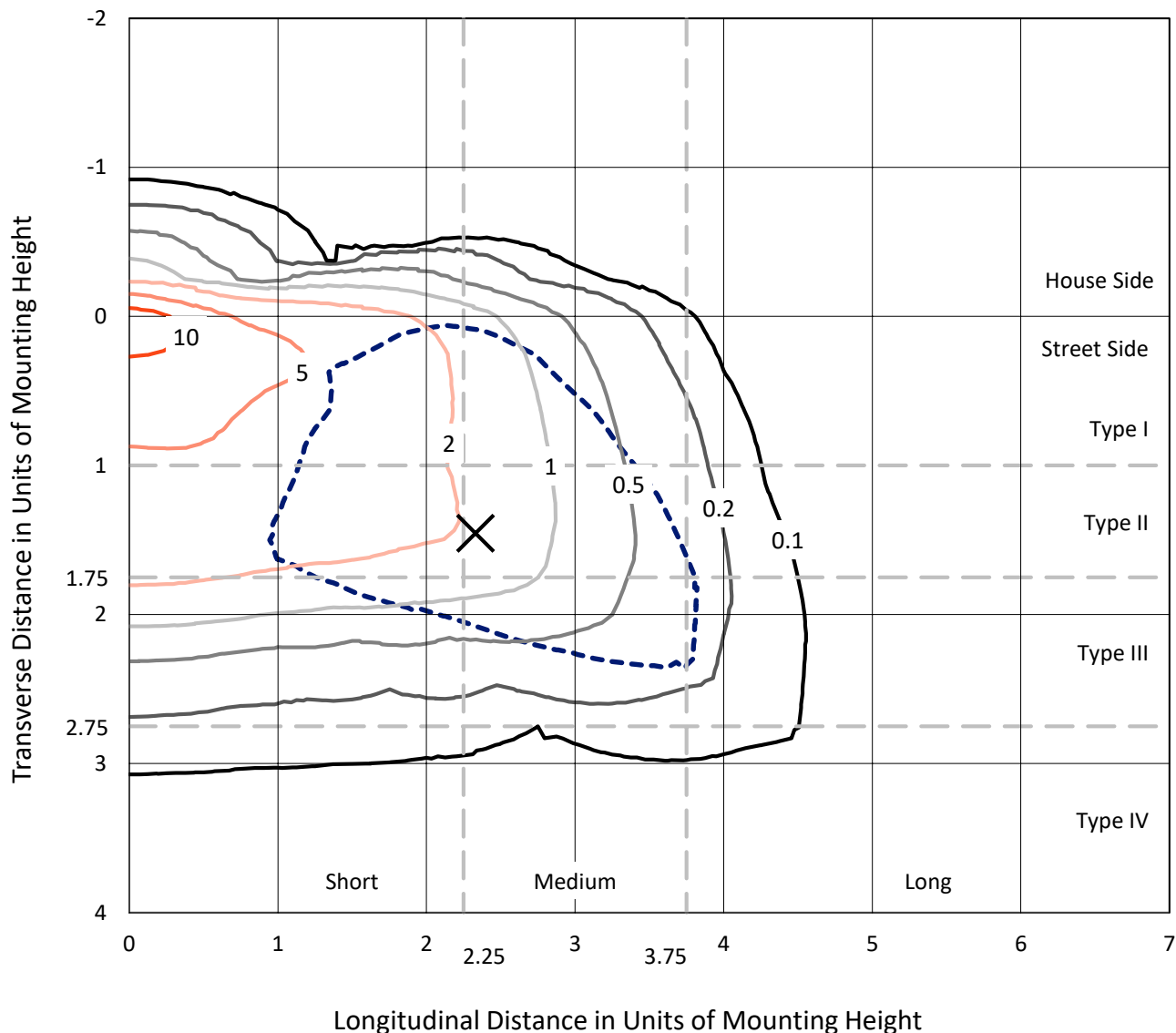
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

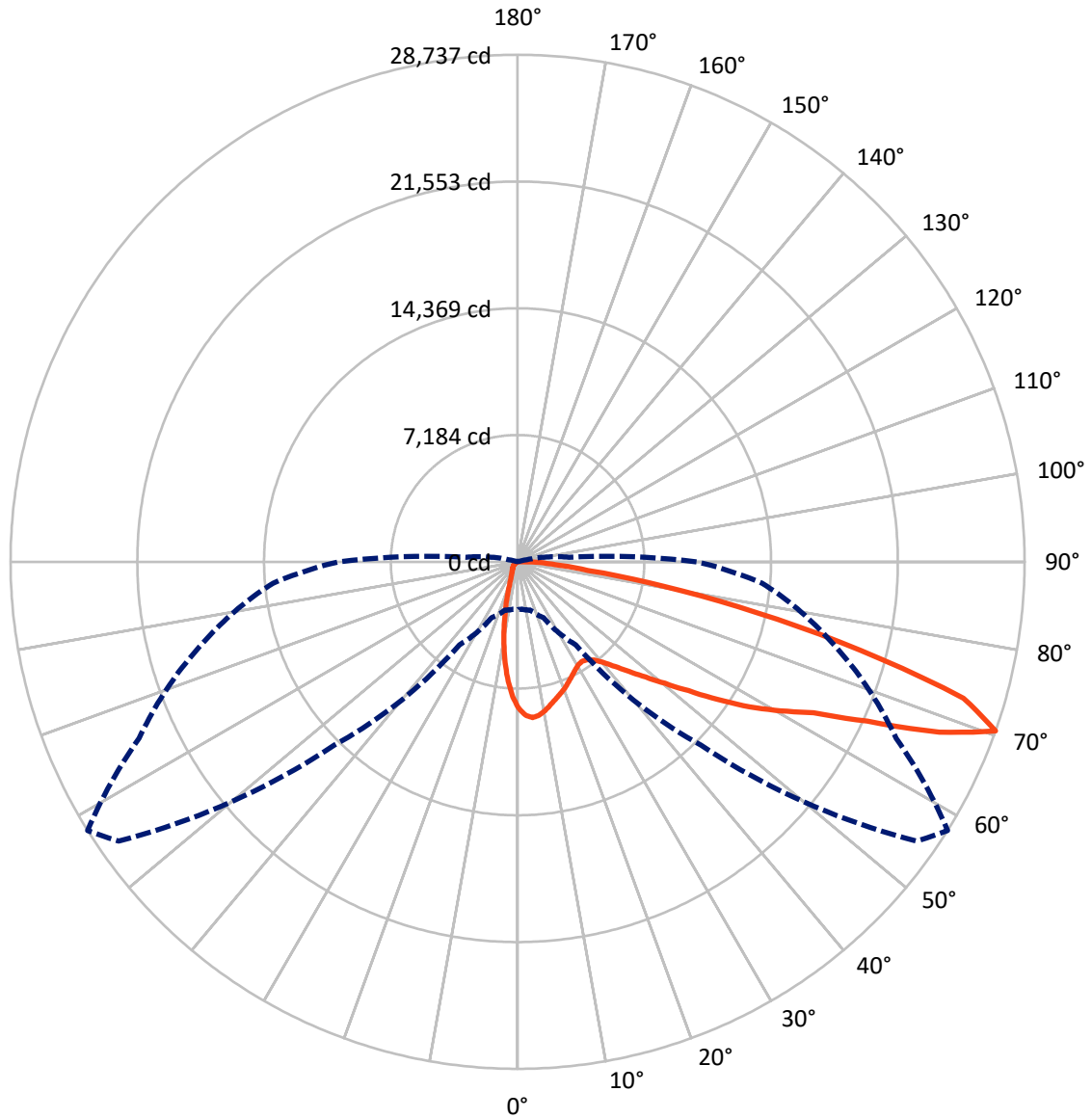
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2407.6	0.0	2407.6
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	25726.0	0.0	25726.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	28133.7	0.0	28133.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.6	2.4
10°-20°	1426.3	5.1
20°-30°	1875.1	6.7
30°-40°	2483.3	8.8
40°-50°	3711.8	13.2
50°-60°	5946.2	21.1
60°-70°	7495.2	26.6
70°-80°	4042.9	14.4
80°-90°	473.2	1.7
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°	28133.7	100.0
0°-180°	28133.7	100.0

Coefficient of Utilization

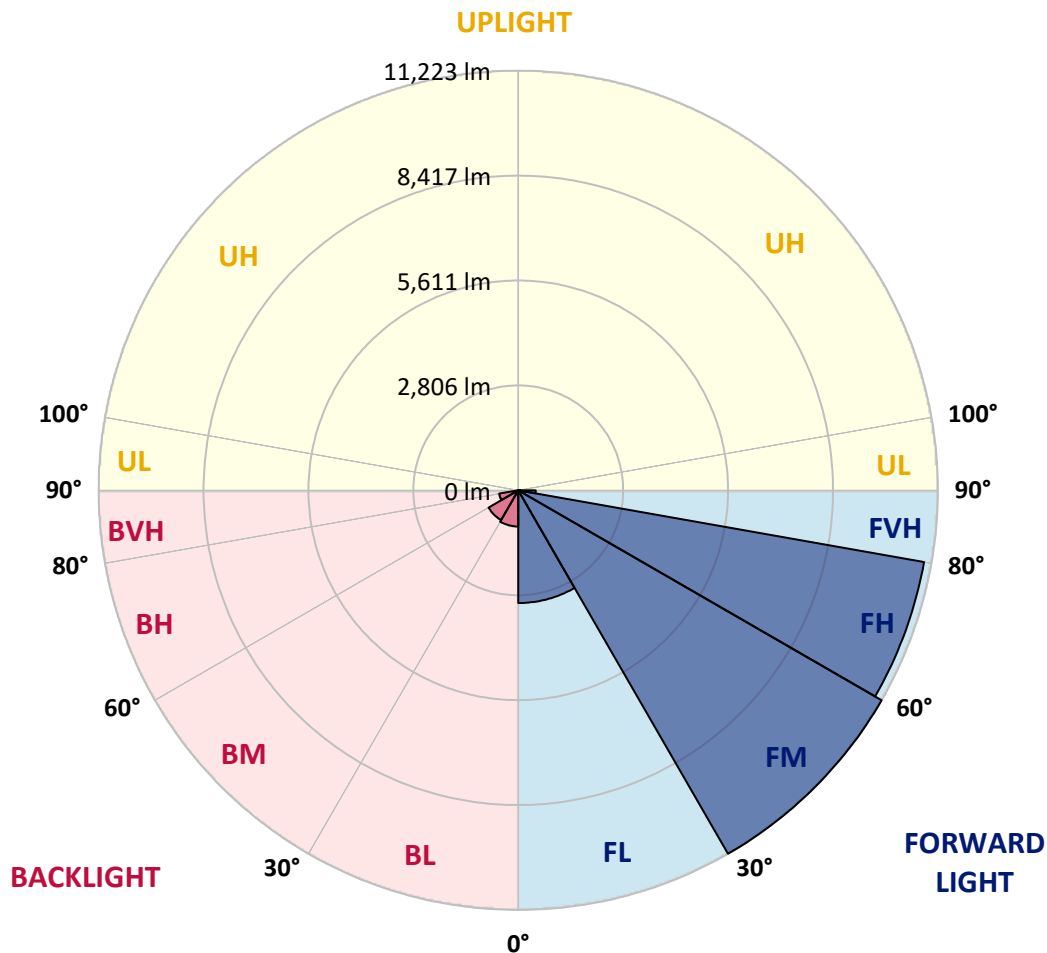


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3013.7	10.7			
FM (30°-60°)	11223.0	39.9			
FH (60°-80°)	11020.2	39.2			G4/12000
FVH (80°-90°)	469.1	1.7			G3/500
BL (0°-30°)	967.3	3.4	B2/1000		
BM (30°-60°)	918.5	3.3	B1/1000		
BH (60°-80°)	517.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5
2.5°	8999.6	8977.3	8969.2	8955.2	8901.3	8848.7	8744.5	8715.3	8649.8	8494.2	8329.2
5°	9006.6	9005.5	9030.0	9024.2	9005.5	8980.9	8906.0	8867.4	8756.3	8534.0	8232.2
7.5°	8572.6	8594.8	8649.8	8694.2	8745.7	8812.4	8821.8	8784.3	8693.1	8453.2	8053.2
10°	7990.0	8025.1	8102.3	8190.1	8324.6	8458.0	8577.3	8572.6	8541.0	8304.7	7837.9
12.5°	7406.3	7447.2	7536.1	7666.0	7856.7	8074.3	8287.1	8316.4	8369.0	8171.3	7639.1
15°	6895.0	6930.2	7017.9	7177.0	7413.3	7705.8	8018.1	8071.9	8207.6	8067.2	7473.0
17.5°	6461.0	6483.3	6547.6	6724.3	6998.0	7352.4	7758.4	7863.7	8066.1	7985.3	7329.0
20°	6158.1	6161.5	6203.6	6327.6	6601.4	6998.0	7489.4	7640.3	7916.3	7915.2	7180.5
22.5°	6008.3	5996.7	6004.8	6076.1	6277.3	6659.9	7220.2	7399.3	7781.8	7855.5	7029.6
25°	5980.3	5970.8	5947.5	5956.9	6078.5	6364.0	6948.9	7156.0	7663.7	7819.2	6898.6
27.5°	6068.0	6077.3	6037.5	5995.4	6004.8	6172.1	6707.9	6947.7	7567.7	7819.2	6806.2
30°	6244.6	6249.3	6220.0	6165.1	6091.4	6118.3	6540.6	6780.4	7519.7	7873.1	6747.7
32.5°	6440.0	6465.7	6462.2	6417.7	6312.4	6203.6	6500.8	6719.5	7516.2	7992.4	6741.8
35°	6682.2	6711.3	6760.5	6751.1	6641.2	6462.2	6636.5	6808.5	7585.2	8188.9	6805.0
37.5°	6939.5	6984.0	7089.3	7139.6	7068.2	6865.8	6940.7	7063.5	7770.1	8507.1	6965.3
40°	7188.7	7239.0	7430.9	7628.5	7574.7	7366.5	7401.6	7499.9	8098.8	8964.5	7269.4
42.5°	7433.2	7508.1	7790.0	8115.2	8179.5	8013.5	8032.2	8110.5	8586.6	9593.8	7766.6
45°	7725.6	7809.8	8227.5	8628.7	8800.7	8728.2	8807.7	8859.2	9224.2	10425.6	8436.9
47.5°	8155.0	8252.0	8764.5	9221.9	9523.7	9570.4	9730.8	9764.7	10030.3	11394.2	9310.7
50°	8992.6	9019.4	9482.7	9898.1	10333.2	10614.0	10796.5	10822.2	11005.9	12452.9	10402.2
52.5°	10046.6	10064.2	10326.2	10604.6	11099.5	11672.7	12099.7	12135.9	12174.6	13484.8	11479.6
55°	11093.6	11091.3	11264.4	11428.2	11994.4	12827.3	13753.8	13776.0	13498.8	14464.0	12303.2
57.5°	11747.6	11810.7	12074.0	12284.5	13075.3	14143.4	15429.0	15510.9	14889.8	15189.3	13117.4
60°	11539.4	11569.7	12153.4	12932.6	14421.8	16014.0	17124.2	17145.2	15935.6	15913.3	14146.9
62.5°	9831.4	9847.8	10764.9	12371.0	15103.8	18440.2	19169.0	18826.3	17138.1	16918.2	15378.7
65°	6738.3	6844.7	7611.0	9596.2	13850.9	19962.1	22334.6	21767.2	18971.3	18366.5	16492.4
67.5°	3968.1	3945.8	4324.9	5787.2	10173.0	18951.4	26338.9	25775.1	21471.2	19336.3	16166.1
70°	2710.5	2695.3	2840.4	3503.6	5742.7	14701.4	27598.9	28737.1	23678.7	18683.5	13912.9
72.5°	1934.9	1943.1	2157.2	2722.3	3605.5	8565.6	23733.8	26427.9	22987.4	16287.7	10575.4
75°	1313.8	1335.9	1642.4	2233.2	3160.9	4357.7	16842.2	20089.7	18718.6	11837.6	6078.5
77.5°	706.6	731.2	1092.6	1799.2	2857.9	3027.5	10833.9	13826.3	11758.1	5321.7	1761.7
80°	294.8	308.8	511.2	1307.9	2469.5	2659.0	6374.5	8384.2	5010.4	1049.4	393.1
82.5°	127.5	134.5	213.0	780.3	1846.0	2244.9	3375.0	4033.6	1518.4	230.5	197.7
85°	24.6	25.7	87.8	413.0	1178.0	1266.9	2187.6	2144.3	682.0	99.4	143.9
87.5°	0.0	0.0	21.1	129.9	346.3	690.2	1334.8	1318.4	231.6	48.0	53.8
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°	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5	8310.5
2.5°	8245.0	8164.4	7994.7	7785.3	7625.0	7448.4	7308.0	7130.2	7052.9	7056.5	7014.4
5°	8060.2	7894.1	7518.6	7044.8	6679.8	6303.1	5979.0	5656.2	5465.5	5403.5	5345.0
7.5°	7795.8	7532.6	6933.7	6203.6	5586.0	4982.4	4457.1	3995.0	3702.5	3559.8	3507.2
10°	7497.5	7127.8	6261.0	5299.4	4417.3	3600.8	2919.9	2328.0	2091.7	1931.4	1890.5
12.5°	7235.4	6734.8	5603.5	4371.7	3324.7	2339.7	1690.4	1322.0	1161.6	1098.5	1088.0
15°	6988.7	6367.4	4970.6	3531.8	2302.2	1440.1	1075.1	949.9	912.5	901.9	901.9
17.5°	6755.9	6017.7	4351.8	2704.7	1523.2	1009.6	890.3	862.1	850.5	849.3	850.5
20°	6512.5	5667.9	3743.5	1981.7	1063.4	855.2	822.4	807.2	803.6	803.6	803.6
22.5°	6279.7	5318.1	3151.5	1415.5	852.8	780.3	763.9	753.3	749.9	748.7	746.4
25°	6056.3	4985.8	2573.7	1000.2	748.7	714.8	700.7	686.7	676.2	670.3	666.8
27.5°	5872.6	4689.9	2035.5	802.5	676.2	647.0	629.4	608.3	582.6	570.9	566.2
30°	5726.4	4419.6	1568.7	677.3	608.3	579.0	552.1	515.9	478.4	458.6	457.4
32.5°	5611.7	4154.1	1190.9	599.0	547.5	511.2	472.6	427.0	383.7	361.4	360.3
35°	5555.6	3920.1	910.1	541.6	493.6	448.1	400.1	349.8	307.7	286.6	284.3
37.5°	5593.0	3722.5	710.1	493.6	448.1	395.4	339.3	286.6	249.2	230.5	229.3
40°	5729.9	3596.1	576.7	452.7	409.4	345.1	284.3	235.1	203.5	188.4	187.1
42.5°	6021.2	3549.3	492.5	418.8	372.0	298.3	236.3	194.2	165.0	154.5	152.1
45°	6507.8	3618.3	435.2	386.0	333.4	253.8	195.3	159.1	133.4	125.2	124.0
47.5°	7156.0	3799.7	394.2	354.5	298.3	214.1	162.6	128.6	108.8	100.6	99.4
50°	7991.2	4087.4	360.3	322.9	265.6	181.3	134.5	101.8	84.2	78.3	78.3
52.5°	8900.2	4430.2	329.9	293.6	232.8	150.9	108.8	78.3	66.7	59.6	59.6
55°	9651.2	4729.7	297.2	271.4	193.0	125.2	83.1	59.6	49.1	45.6	45.6
57.5°	10401.1	5049.1	259.7	232.8	154.5	101.8	63.2	44.4	36.2	33.9	33.9
60°	11373.2	5439.8	223.5	189.5	121.7	77.2	46.8	31.6	26.9	25.7	25.7
62.5°	12442.4	5669.0	190.7	152.1	94.7	57.3	33.9	21.1	19.8	19.8	18.7
65°	13096.3	5345.0	160.2	121.7	73.7	43.3	22.3	15.2	17.5	16.4	14.1
67.5°	12262.2	4184.5	131.1	94.7	57.3	32.8	14.1	10.5	18.7	15.2	11.7
70°	10153.0	2929.3	101.8	66.7	45.6	28.0	9.3	7.0	19.8	15.2	9.3
72.5°	7598.1	1960.6	80.8	44.4	33.9	24.6	8.2	3.5	17.5	12.9	8.2
75°	4151.7	789.7	64.4	28.0	21.1	17.5	5.9	2.3	11.7	9.3	5.9
77.5°	1092.6	208.2	46.8	18.7	11.7	7.0	3.5	1.2	5.9	4.7	2.3
80°	278.4	80.8	30.5	12.9	8.2	3.5	0.0	0.0	1.2	0.0	0.0
82.5°	148.6	33.9	18.7	9.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	112.3	22.3	10.5	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.3	7.0	3.5	0.0	0.0	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)