

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: P324822

Luminaire Tested: **GAN-SA8D-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50905 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

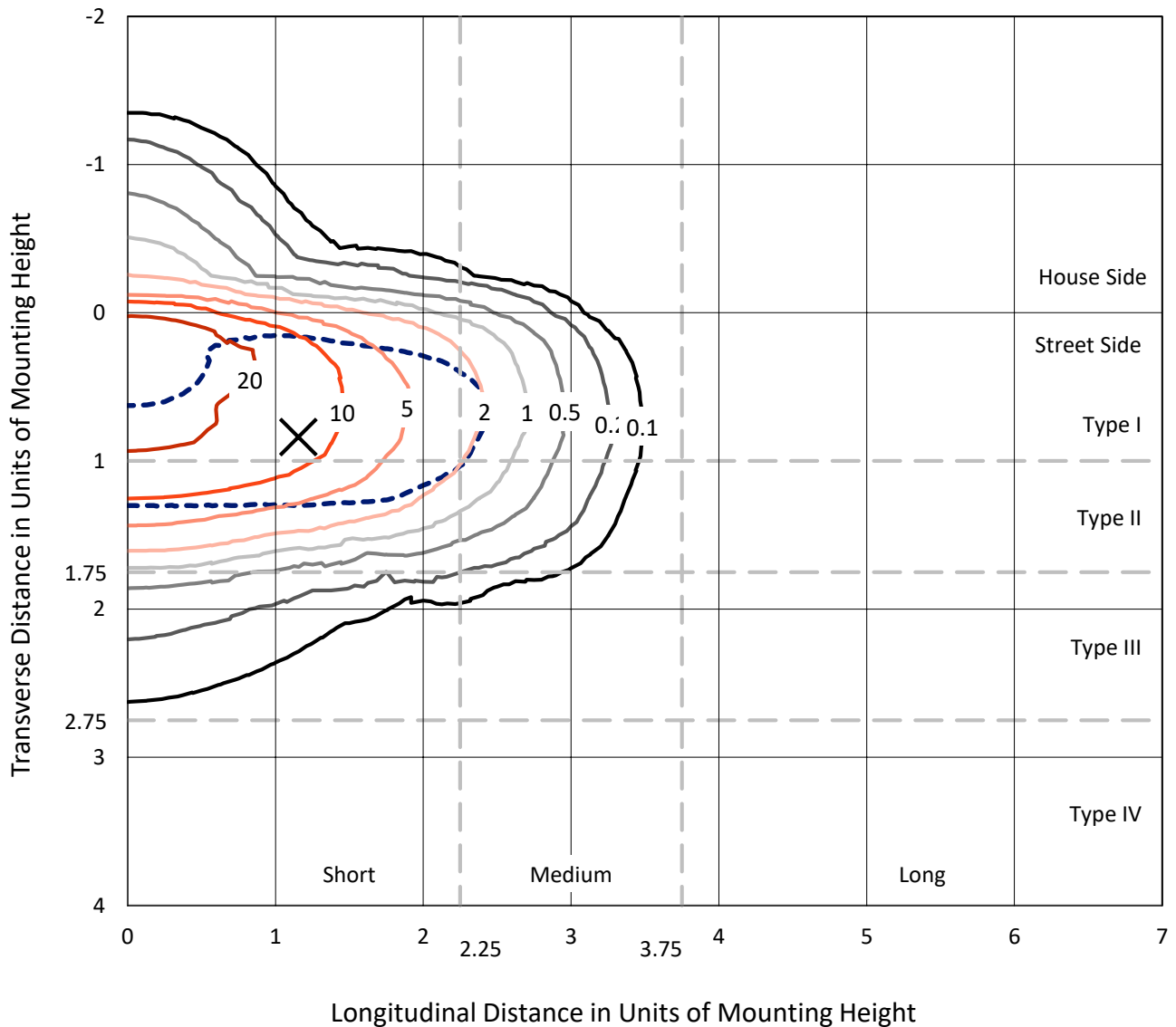
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

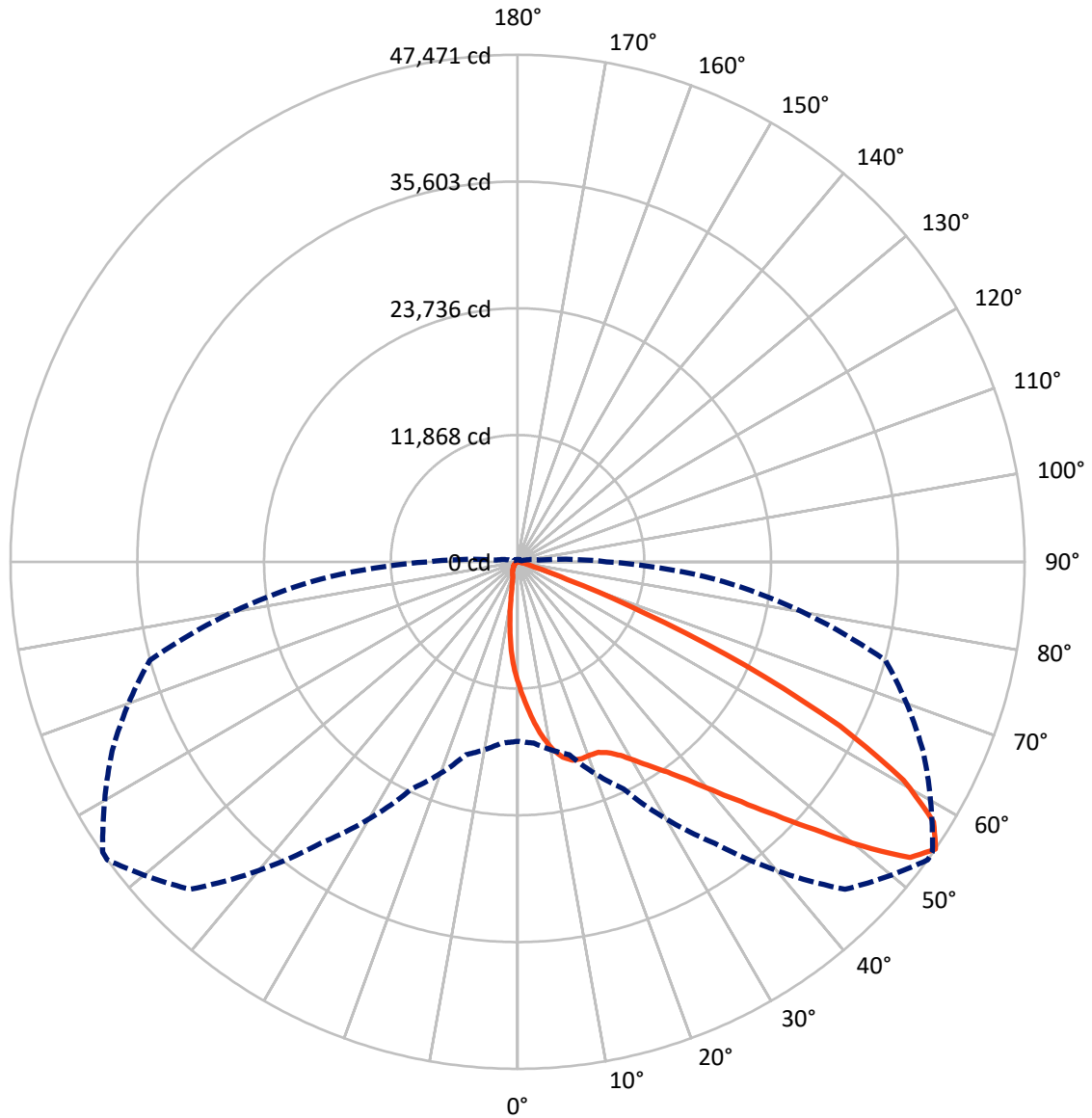
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2539.8	0.0	2539.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	48365.2	0.0	48365.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	50905.0	0.0	50905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1049.9	2.1
10°-20°	2879.3	5.7
20°-30°	4915.9	9.7
30°-40°	7889.2	15.5
40°-50°	12607.0	24.8
50°-60°	13508.8	26.5
60°-70°	6935.8	13.6
70°-80°	1050.6	2.1
80°-90°	68.4	0.1
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°	50905.0	100.0
0°-180°	50905.0	100.0

Coefficient of Utilization



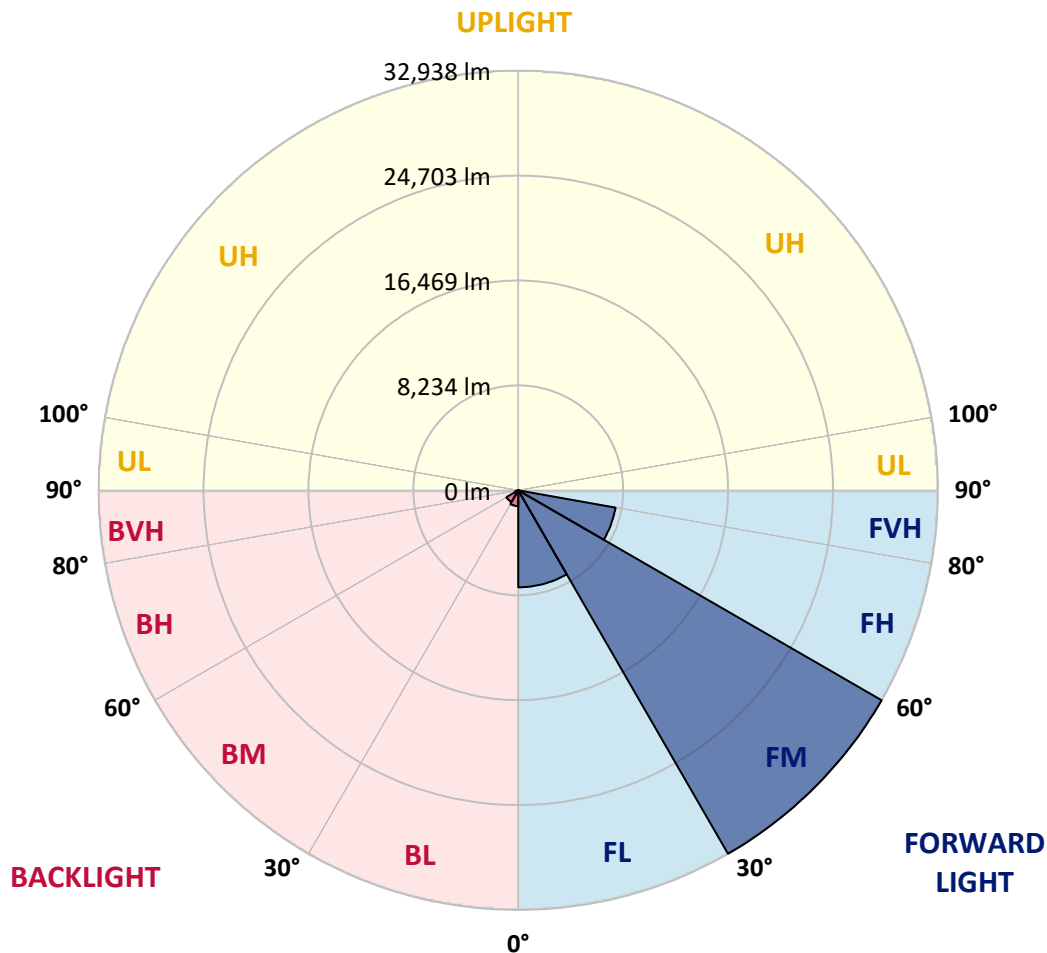
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7609.4	14.9			
FM (30°-60°)	32937.8	64.7			
FH (60°-80°)	7752.4	15.2			G4/12000
FVH (80°-90°)	65.7	0.1			G1/100
BL (0°-30°)	1235.7	2.4	B3/2500		
BM (30°-60°)	1067.3	2.1	B2/2500		
BH (60°-80°)	234.1	0.5	B1/500		G1/500
BVH (80°-90°)	2.8	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7
2.5°	14306.9	14093.7	14100.3	14003.5	13649.6	13372.6	13084.6	13016.5	12568.0	12097.6	11644.7
5°	16780.1	16624.0	16586.6	16399.7	15907.3	15386.3	14827.9	14698.2	13821.1	12858.2	11910.7
7.5°	18050.7	18052.9	18022.1	17954.0	17646.2	17140.6	16459.1	16322.8	15129.1	13684.8	12187.7
10°	17681.4	17764.9	17936.4	18162.8	18398.0	18334.3	17822.1	17699.0	16401.9	14559.7	12495.5
12.5°	16819.6	16830.6	17021.9	17393.4	18070.5	18765.2	18774.0	18732.2	17617.6	15474.2	12834.0
15°	16390.9	16432.7	16503.1	16742.7	17384.6	18497.0	19292.8	19352.1	18732.2	16445.9	13194.5
17.5°	16672.3	16731.7	16672.3	16700.9	17072.4	18072.7	19382.9	19534.6	19706.1	17406.6	13535.3
20°	17435.2	17490.1	17384.6	17268.1	17340.6	17949.6	19319.2	19523.6	20468.9	18259.5	13821.1
22.5°	18464.0	18486.0	18325.5	18134.2	18081.5	18367.3	19371.9	19583.0	21080.0	19031.2	14001.3
25°	19596.2	19615.9	19415.9	19196.0	19070.7	19187.3	19805.0	19963.3	21618.6	19767.6	14104.7
27.5°	20829.4	20847.0	20596.4	20326.0	20180.9	20185.3	20519.5	20688.7	22192.4	20607.4	14188.2
30°	22133.1	22124.3	21893.4	21517.5	21332.9	21328.5	21548.3	21719.8	23023.4	21684.6	14302.5
32.5°	23597.2	23579.6	23252.0	22786.0	22577.1	22607.9	22803.6	22902.5	24054.4	22832.1	14507.0
35°	25525.1	25474.6	24979.9	24401.8	24017.0	24006.1	24170.9	24250.1	25369.0	24221.5	14847.7
37.5°	28026.8	27980.7	27310.2	26470.4	25929.6	25727.4	25923.0	26024.1	27244.2	26004.4	15395.1
40°	30493.4	30447.2	30049.3	29279.9	28446.7	27960.9	28114.8	28222.5	29585.5	28167.5	16085.4
42.5°	32194.9	32234.5	32373.0	32436.8	31656.3	30636.3	30706.6	30818.8	32045.4	30480.2	16874.6
45°	32643.4	32729.1	33511.7	35048.4	35340.8	34545.0	33808.5	33870.1	34545.0	32792.9	17663.8
47.5°	31295.8	31454.1	32964.4	35822.2	38297.6	38860.3	37466.6	37385.3	36943.4	34663.7	18224.4
50°	28233.5	28378.6	30335.1	34562.6	39194.5	42980.1	41850.1	41610.5	39047.2	35782.6	18422.2
52.5°	23801.6	23977.5	25566.9	30596.7	37504.0	44817.9	46000.6	45800.6	40590.5	35870.6	18455.2
55°	16808.6	17021.9	18703.6	23449.9	32146.6	43356.0	47471.3	47412.0	41872.1	35637.6	18525.6
57.5°	9446.3	9600.2	11413.9	15032.4	23544.4	37763.4	45934.7	46328.2	42645.9	35233.1	18631.1
60°	4194.5	4236.2	5174.9	7483.2	13783.7	28860.0	41535.7	42199.7	41982.0	34692.3	18809.1
62.5°	2325.9	2290.7	2290.7	3110.7	5990.5	17866.0	33870.1	34967.1	39148.3	34052.5	18817.9
65°	1822.4	1789.5	1694.9	1708.1	2281.9	7929.5	23454.3	25404.2	33766.8	32177.3	18184.8
67.5°	1545.4	1516.9	1422.3	1385.0	1417.9	2616.0	12886.8	14911.5	25621.8	27303.6	15751.2
70°	1305.8	1286.0	1237.7	1191.5	1108.0	1292.6	4930.9	6307.1	15788.6	18162.8	10752.2
72.5°	1050.8	1042.0	1059.6	1020.0	918.9	861.8	1686.1	2042.3	7091.9	8105.3	4429.7
75°	905.7	901.3	910.1	870.5	756.2	600.2	857.4	936.5	2000.5	1982.9	896.9
77.5°	589.2	595.8	754.0	736.4	650.7	400.1	444.1	479.2	606.7	455.1	272.6
80°	375.9	371.5	382.5	611.1	584.8	305.6	222.0	233.0	292.4	224.2	131.9
82.5°	228.6	224.2	250.6	285.8	294.6	213.2	136.3	138.5	182.5	145.1	70.3
85°	19.8	26.4	151.7	140.7	101.1	66.0	66.0	70.3	96.7	85.7	39.6
87.5°	0.0	0.0	26.4	39.6	22.0	24.2	24.2	26.4	37.4	37.4	19.8
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°	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7	11400.7
2.5°	11409.5	11180.8	10719.2	10275.1	9899.2	9536.5	9123.2	8714.3	8523.0	8446.1	8366.9
5°	11429.3	10958.8	10006.9	9048.4	8054.8	7160.0	6397.2	5614.6	5223.3	5051.8	4972.7
7.5°	11455.6	10739.0	9200.1	7590.9	5990.5	4777.0	3717.4	3035.9	2741.4	2695.2	2580.9
10°	11460.0	10473.0	8263.6	5981.7	4016.4	2879.8	2215.9	1864.2	1734.5	1712.5	1675.1
12.5°	11468.8	10158.6	7223.8	4429.7	2677.6	1925.8	1602.6	1486.1	1450.9	1448.7	1448.7
15°	11495.2	9828.9	6144.4	3192.0	1923.6	1525.7	1406.9	1360.8	1347.6	1354.2	1352.0
17.5°	11495.2	9439.7	5084.8	2378.6	1554.2	1371.8	1305.8	1275.0	1270.7	1277.2	1279.4
20°	11411.7	8967.1	4113.1	1851.0	1378.4	1272.8	1213.5	1184.9	1173.9	1178.3	1180.5
22.5°	11211.6	8386.7	3321.7	1532.3	1261.9	1182.7	1119.0	1075.0	1057.4	1059.6	1059.6
25°	10899.5	7698.6	2598.5	1325.6	1167.3	1086.0	1011.2	960.7	949.7	947.5	951.9
27.5°	10499.4	6938.0	2068.7	1167.3	1055.2	978.3	903.5	861.8	853.0	855.2	857.4
30°	10105.8	6148.8	1631.2	1033.2	929.9	857.4	800.2	780.4	780.4	787.0	789.2
32.5°	9745.3	5390.4	1290.4	916.7	817.8	751.8	718.9	716.7	727.7	732.1	734.3
35°	9435.3	4689.1	1068.4	826.6	729.9	672.7	661.7	670.5	683.7	692.5	694.7
37.5°	9215.5	4062.6	934.3	751.8	661.7	615.5	613.3	630.9	648.5	668.3	672.7
40°	9123.2	3532.8	842.0	685.9	606.7	571.6	565.0	589.2	622.1	650.7	655.1
42.5°	9046.2	3099.7	762.8	622.1	562.8	512.2	510.0	540.8	580.4	608.9	615.5
45°	8980.3	2752.3	690.3	554.0	505.6	439.7	446.3	485.8	516.6	547.4	554.0
47.5°	8844.0	2466.6	611.1	481.4	417.7	375.9	389.1	424.3	448.5	494.6	501.2
50°	8600.0	2233.5	529.8	393.5	340.7	325.4	345.1	369.3	400.1	439.7	444.1
52.5°	8435.1	2057.7	459.5	329.8	281.4	285.8	305.6	314.4	332.0	347.3	342.9
55°	8340.6	1960.9	402.3	285.8	239.6	252.8	257.2	246.2	237.4	222.0	215.4
57.5°	8329.6	1873.0	358.3	248.4	211.0	217.6	202.2	164.9	134.1	116.5	112.1
60°	8312.0	1765.3	323.2	208.8	186.9	178.1	145.1	90.1	63.8	59.4	59.4
62.5°	8120.7	1598.2	296.8	175.9	158.3	134.1	83.5	41.8	35.2	37.4	37.4
65°	7511.8	1365.2	270.4	142.9	125.3	96.7	41.8	24.2	13.2	15.4	15.4
67.5°	6386.2	1088.2	241.8	109.9	94.5	61.6	24.2	11.0	0.0	0.0	0.0
70°	4275.8	674.9	204.4	76.9	61.6	37.4	17.6	2.2	0.0	0.0	0.0
72.5°	1640.0	364.9	164.9	46.2	39.6	26.4	11.0	0.0	0.0	0.0	0.0
75°	369.3	239.6	114.3	33.0	28.6	17.6	4.4	0.0	0.0	0.0	0.0
77.5°	140.7	173.7	66.0	22.0	19.8	11.0	0.0	0.0	0.0	0.0	0.0
80°	68.1	103.3	30.8	13.2	11.0	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	35.2	39.6	13.2	6.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.8	19.8	6.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	6.6	2.2	2.2	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)