

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: P324781

Luminaire Tested: **GAN-SA7D-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324781
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-SA7D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 40915 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

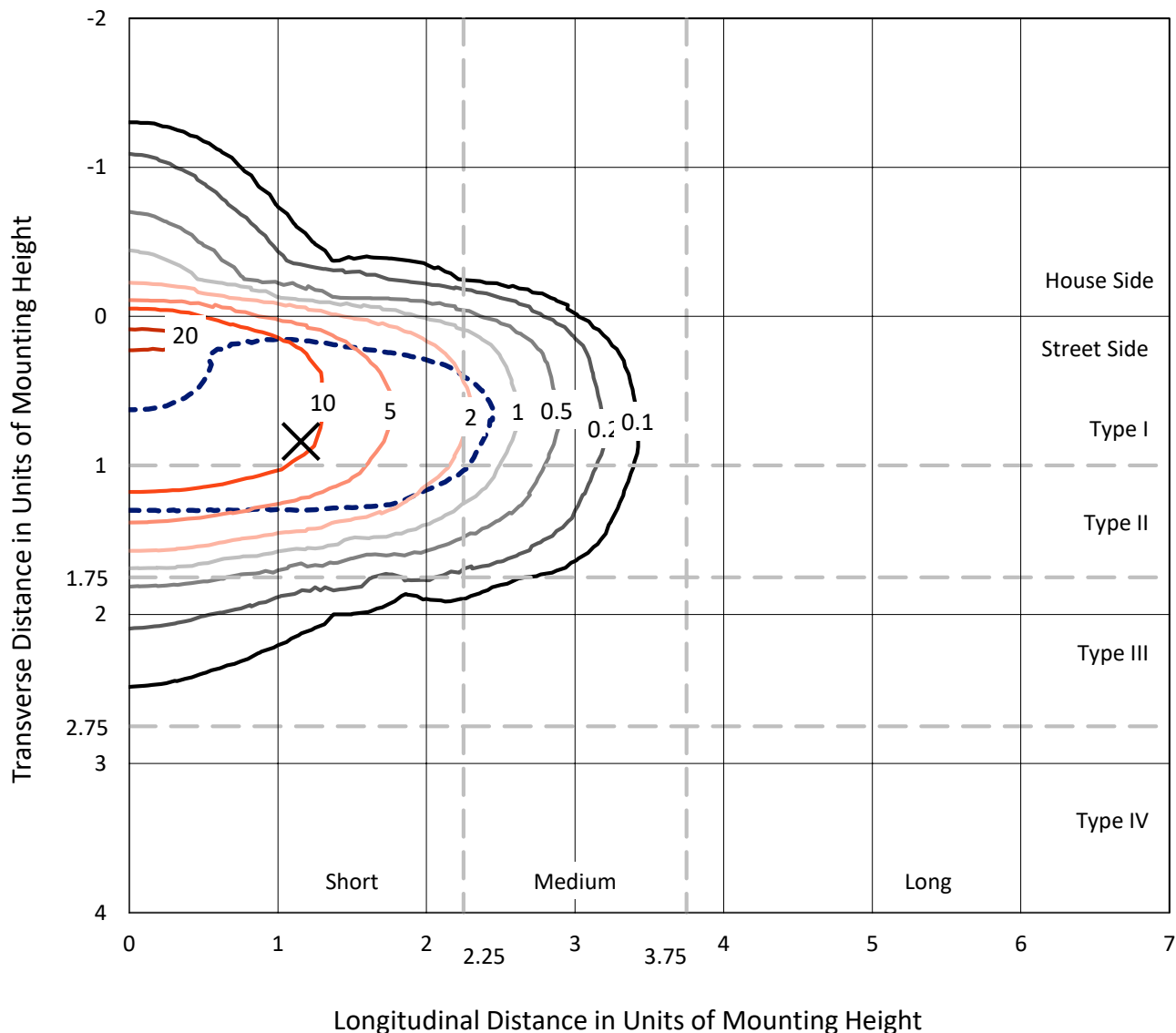
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

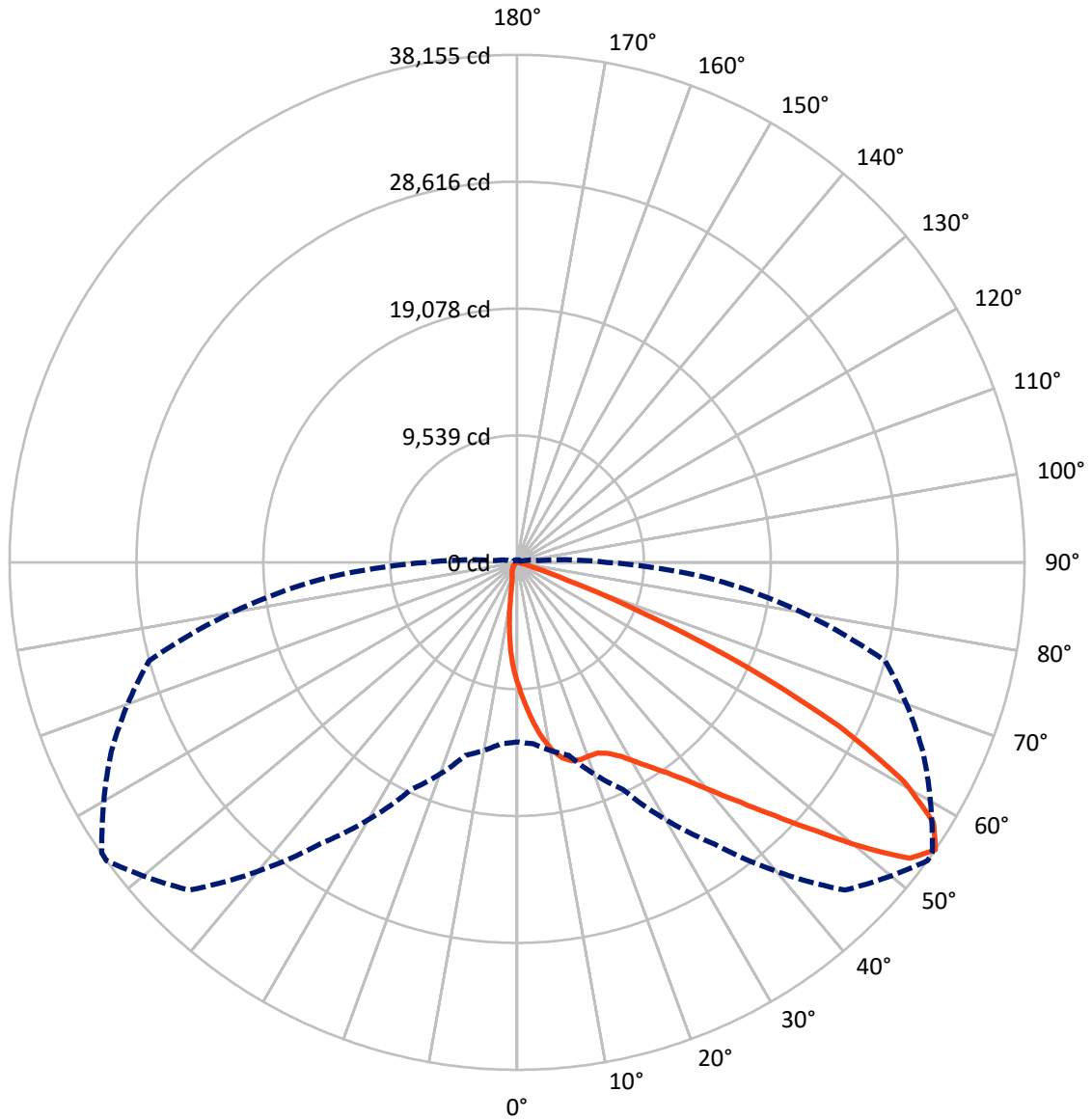
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 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	2041.3	0.0	2041.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	38873.6	0.0	38873.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	40915.0	0.0	40915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	843.8	2.1
10°-20°	2314.3	5.7
20°-30°	3951.2	9.7
30°-40°	6341.0	15.5
40°-50°	10132.9	24.8
50°-60°	10857.7	26.5
60°-70°	5574.7	13.6
70°-80°	844.4	2.1
80°-90°	55.0	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°	40915.0	100.0
0°-180°	40915.0	100.0

Coefficient of Utilization



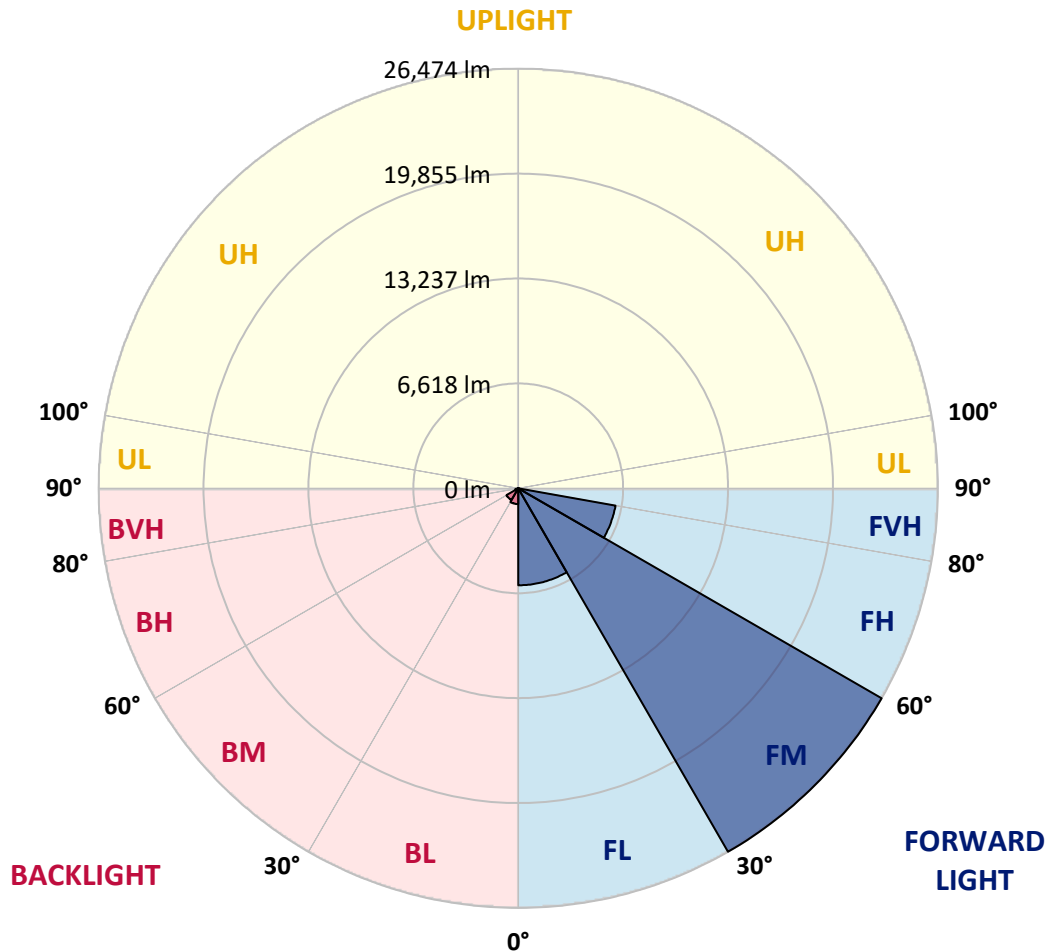
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6116.1	14.9			
FM (30°-60°)	26473.8	64.7			
FH (60°-80°)	6231.0	15.2			G3/7500
FVH (80°-90°)	52.8	0.1			G1/100
BL (0°-30°)	993.2	2.4	B2/1000		
BM (30°-60°)	857.8	2.1	B1/1000		
BH (60°-80°)	188.1	0.5	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3
2.5°	11499.2	11327.8	11333.1	11255.4	10970.9	10748.3	10516.8	10462.0	10101.6	9723.4	9359.4
5°	13487.0	13361.6	13331.5	13181.3	12785.5	12366.8	11918.0	11813.7	11108.7	10334.8	9573.2
7.5°	14508.3	14510.1	14485.3	14430.5	14183.2	13776.8	13229.0	13119.5	12160.0	10999.2	9795.9
10°	14211.4	14278.6	14416.4	14598.4	14787.5	14736.2	14324.5	14225.6	13183.1	11702.4	10043.3
12.5°	13518.8	13527.6	13681.4	13980.0	14524.2	15082.5	15089.6	15056.0	14160.2	12437.4	10315.4
15°	13174.3	13207.8	13264.4	13457.0	13972.9	14867.0	15506.6	15554.3	15056.0	13218.4	10605.1
17.5°	13400.4	13448.1	13400.4	13423.4	13722.0	14526.0	15579.1	15701.0	15838.8	13990.6	10879.0
20°	14013.6	14057.7	13972.9	13879.3	13937.6	14427.0	15527.8	15692.1	16451.9	14676.2	11108.7
22.5°	14840.5	14858.1	14729.2	14575.4	14533.0	14762.7	15570.2	15739.8	16943.1	15296.3	11253.6
25°	15750.4	15766.3	15605.6	15428.9	15328.1	15421.8	15918.3	16045.5	17376.0	15888.3	11336.6
27.5°	16741.7	16755.8	16554.4	16337.1	16220.5	16224.0	16492.6	16628.6	17837.2	16563.2	11403.8
30°	17789.5	17782.4	17596.9	17294.7	17146.3	17142.8	17319.5	17457.3	18505.1	17429.0	11495.7
32.5°	18966.3	18952.1	18688.9	18314.3	18146.4	18171.1	18328.4	18407.9	19333.8	18351.4	11660.0
35°	20515.9	20475.2	20077.7	19613.0	19303.8	19294.9	19427.4	19491.0	20390.4	19468.1	11933.9
37.5°	22526.6	22489.5	21950.6	21275.6	20841.0	20678.4	20835.7	20917.0	21897.6	20901.1	12373.8
40°	24509.1	24472.0	24152.2	23533.8	22864.1	22473.6	22597.3	22683.9	23779.4	22639.7	12928.7
42.5°	25876.7	25908.5	26019.9	26071.1	25443.8	24624.0	24680.5	24770.6	25756.6	24498.5	13563.0
45°	26237.2	26306.1	26935.1	28170.2	28405.2	27765.6	27173.7	27223.1	27765.6	26357.3	14197.3
47.5°	25154.1	25281.3	26495.2	28792.2	30781.8	31234.1	30113.9	30048.5	29693.3	27861.0	14647.9
50°	22692.7	22809.3	24381.9	27779.7	31502.7	34545.3	33637.1	33444.5	31384.3	28760.4	14806.9
52.5°	19130.6	19271.9	20549.4	24592.2	30143.9	36022.5	36973.1	36812.3	32624.7	28831.1	14833.4
55°	13510.0	13681.4	15033.1	18847.9	25837.9	34847.5	38155.2	38107.5	33654.8	28643.8	14889.9
57.5°	7592.5	7716.2	9173.9	12082.3	18923.9	30352.4	36920.1	37236.4	34276.7	28318.6	14974.8
60°	3371.3	3404.9	4159.4	6014.6	11078.7	23196.3	33384.4	33918.1	33743.1	27884.0	15117.9
62.5°	1869.4	1841.1	1841.1	2500.2	4814.9	14359.9	27223.1	28104.8	31465.6	27369.8	15125.0
65°	1464.8	1438.3	1362.3	1372.9	1834.1	6373.3	18851.4	20418.7	27140.1	25862.6	14616.1
67.5°	1242.2	1219.2	1143.2	1113.2	1139.7	2102.7	10357.8	11985.1	20593.6	21945.3	12660.1
70°	1049.6	1033.7	994.8	957.7	890.5	1039.0	3963.2	5069.3	12690.1	14598.4	8642.1
72.5°	844.6	837.5	851.7	819.9	738.6	692.6	1355.2	1641.5	5700.1	6514.7	3560.4
75°	728.0	724.4	731.5	699.7	607.8	482.4	689.1	752.7	1607.9	1593.8	720.9
77.5°	473.5	478.8	606.1	591.9	523.0	321.6	356.9	385.2	487.7	365.8	219.1
80°	302.1	298.6	307.4	491.2	470.0	245.6	178.5	187.3	235.0	180.2	106.0
82.5°	183.8	180.2	201.4	229.7	236.8	171.4	109.5	111.3	146.7	116.6	56.5
85°	15.9	21.2	121.9	113.1	81.3	53.0	53.0	56.5	77.7	68.9	31.8
87.5°	0.0	0.0	21.2	31.8	17.7	19.4	19.4	21.2	30.0	30.0	15.9
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°	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3	9163.3
2.5°	9170.4	8986.6	8615.6	8258.6	7956.5	7665.0	7332.8	7004.1	6850.4	6788.6	6724.9
5°	9186.3	8808.2	8043.1	7272.7	6474.0	5754.9	5141.8	4512.7	4198.2	4060.4	3996.8
7.5°	9207.5	8631.5	7394.6	6101.2	4814.9	3839.5	2987.9	2440.1	2203.4	2166.3	2074.4
10°	9211.0	8417.7	6641.9	4807.8	3228.2	2314.7	1781.1	1498.4	1394.1	1376.4	1346.4
12.5°	9218.1	8165.0	5806.1	3560.4	2152.1	1547.8	1288.1	1194.4	1166.2	1164.4	1164.4
15°	9239.3	7900.0	4938.6	2565.6	1546.1	1226.3	1130.8	1093.7	1083.1	1088.4	1086.7
17.5°	9239.3	7587.2	4086.9	1911.8	1249.2	1102.6	1049.6	1024.8	1021.3	1026.6	1028.4
20°	9172.2	7207.3	3305.9	1487.8	1107.9	1023.1	975.3	952.4	943.5	947.1	948.8
22.5°	9011.4	6740.9	2669.8	1231.6	1014.2	950.6	899.4	864.0	849.9	851.7	851.7
25°	8760.5	6187.8	2088.5	1065.5	938.2	872.9	812.8	772.2	763.3	761.5	765.1
27.5°	8438.9	5576.4	1662.7	938.2	848.1	786.3	726.2	692.6	685.6	687.3	689.1
30°	8122.6	4942.1	1311.1	830.5	747.4	689.1	643.2	627.3	627.3	632.6	634.3
32.5°	7832.8	4332.5	1037.2	736.8	657.3	604.3	577.8	576.0	584.9	588.4	590.2
35°	7583.7	3768.9	858.7	664.4	586.6	540.7	531.8	538.9	549.5	556.6	558.4
37.5°	7407.0	3265.3	750.9	604.3	531.8	494.7	493.0	507.1	521.2	537.1	540.7
40°	7332.8	2839.5	676.7	551.3	487.7	459.4	454.1	473.5	500.0	523.0	526.5
42.5°	7270.9	2491.4	613.1	500.0	452.3	411.7	409.9	434.7	466.5	489.4	494.7
45°	7217.9	2212.2	554.8	445.3	406.4	353.4	358.7	390.5	415.2	440.0	445.3
47.5°	7108.4	1982.5	491.2	387.0	335.7	302.1	312.7	341.0	360.5	397.6	402.9
50°	6912.2	1795.2	425.8	316.3	273.9	261.5	277.4	296.8	321.6	353.4	356.9
52.5°	6779.7	1653.8	369.3	265.0	226.2	229.7	245.6	252.7	266.8	279.2	275.6
55°	6703.7	1576.1	323.3	229.7	192.6	203.2	206.7	197.9	190.8	178.5	173.2
57.5°	6694.9	1505.4	288.0	199.7	169.6	174.9	162.6	132.5	107.8	93.6	90.1
60°	6680.8	1418.8	259.7	167.9	150.2	143.1	116.6	72.4	51.2	47.7	47.7
62.5°	6527.1	1284.6	238.5	141.4	127.2	107.8	67.1	33.6	28.3	30.0	30.0
65°	6037.6	1097.3	217.3	114.9	100.7	77.7	33.6	19.4	10.6	12.4	12.4
67.5°	5132.9	874.6	194.4	88.3	76.0	49.5	19.4	8.8	0.0	0.0	0.0
70°	3436.7	542.4	164.3	61.8	49.5	30.0	14.1	1.8	0.0	0.0	0.0
72.5°	1318.1	293.3	132.5	37.1	31.8	21.2	8.8	0.0	0.0	0.0	0.0
75°	296.8	192.6	91.9	26.5	23.0	14.1	3.5	0.0	0.0	0.0	0.0
77.5°	113.1	139.6	53.0	17.7	15.9	8.8	0.0	0.0	0.0	0.0	0.0
80°	54.8	83.0	24.7	10.6	8.8	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	28.3	31.8	10.6	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	15.9	5.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.8	5.3	1.8	1.8	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)