

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: P324731

Luminaire Tested: **GAN-SA7C-727-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324731
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-SA7C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA 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: 34250 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

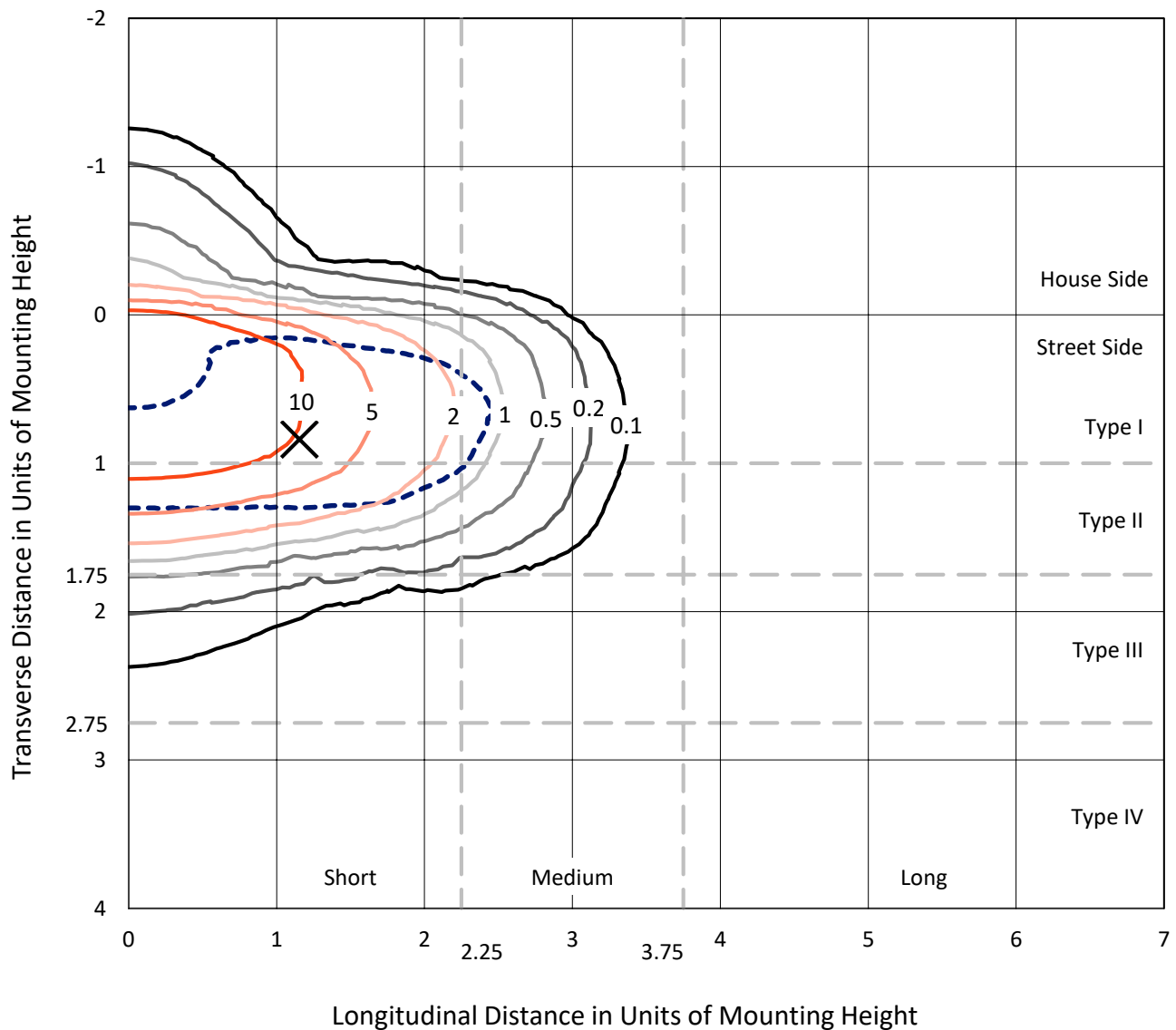
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

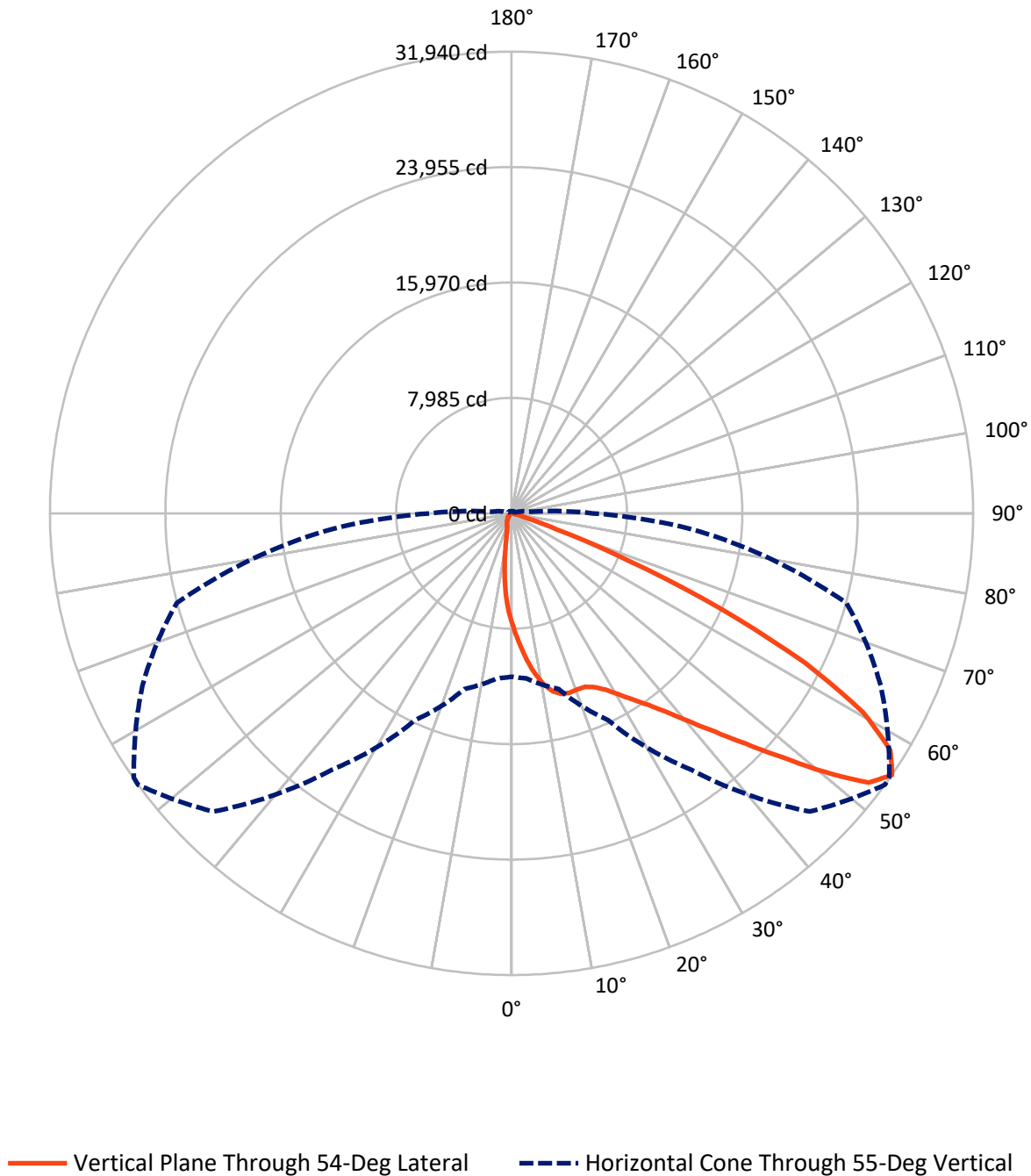
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1708.8	0.0	1708.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32541.2	0.0	32541.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	34250.0	0.0	34250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.4	2.1
10°-20°	1937.3	5.7
20°-30°	3307.5	9.7
30°-40°	5308.1	15.5
40°-50°	8482.3	24.8
50°-60°	9089.0	26.5
60°-70°	4666.6	13.6
70°-80°	706.9	2.1
80°-90°	46.0	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°	34250.0	100.0
0°-180°	34250.0	100.0

Coefficient of Utilization



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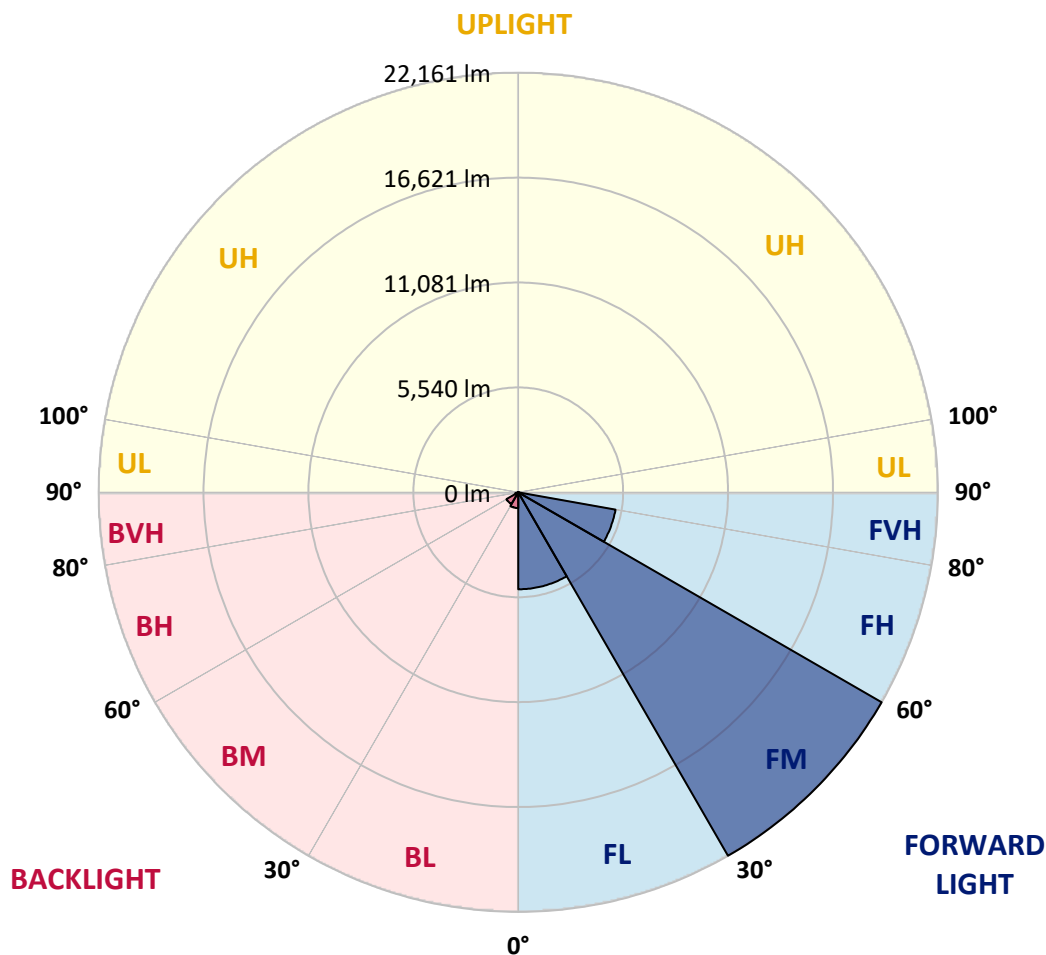
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5119.8	14.9			
FM	(30°-60°)	22161.3	64.7			
FH	(60°-80°)	5216.0	15.2			G3/7500
FVH	(80°-90°)	44.2	0.1			G1/100
BL	(0°-30°)	831.4	2.4	B2/1000		
BM	(30°-60°)	718.1	2.1	B1/1000		
BH	(60°-80°)	157.5	0.5	B1/500		G1/500
BVH	(80°-90°)	1.9	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°	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6
2.5°	9626.0	9482.5	9487.0	9421.9	9183.7	8997.4	8803.6	8757.8	8456.0	8139.5	7834.8
5°	11290.0	11185.0	11159.8	11034.1	10702.8	10352.2	9976.5	9889.3	9299.1	8651.3	8013.8
7.5°	12144.9	12146.4	12125.7	12079.8	11872.8	11532.6	11074.0	10982.3	10179.2	9207.4	8200.1
10°	11896.4	11952.6	12068.0	12220.3	12378.6	12335.7	11991.1	11908.3	11035.6	9796.1	8407.2
12.5°	11316.6	11324.0	11452.7	11702.7	12158.2	12625.6	12631.5	12603.4	11853.5	10411.4	8635.0
15°	11028.2	11056.3	11103.6	11264.8	11696.7	12445.2	12980.6	13020.5	12603.4	11065.2	8877.6
17.5°	11217.5	11257.4	11217.5	11236.7	11486.7	12159.7	13041.2	13143.3	13258.7	11711.5	9106.8
20°	11730.8	11767.7	11696.7	11618.3	11667.2	12076.9	12998.4	13135.9	13771.9	12285.4	9299.1
22.5°	12423.0	12437.8	12329.8	12201.1	12165.6	12357.9	13033.9	13175.8	14183.1	12804.6	9420.4
25°	13184.7	13198.0	13063.4	12915.5	12831.2	12909.6	13325.2	13431.7	14545.5	13300.1	9489.9
27.5°	14014.5	14026.3	13857.7	13675.8	13578.2	13581.1	13805.9	13919.8	14931.5	13865.1	9546.1
30°	14891.6	14885.7	14730.4	14477.5	14353.2	14350.3	14498.2	14613.5	15490.6	14589.9	9623.0
32.5°	15876.7	15864.9	15644.5	15330.9	15190.4	15211.1	15342.7	15409.3	16184.3	15362.0	9760.6
35°	17173.9	17139.8	16807.0	16418.0	16159.2	16151.8	16262.7	16316.0	17068.8	16296.8	9989.9
37.5°	18857.1	18826.0	18374.9	17809.9	17446.0	17309.9	17441.6	17509.6	18330.5	17496.3	10358.2
40°	20516.6	20485.6	20217.9	19700.2	19139.6	18812.7	18916.2	18988.7	19905.8	18951.7	10822.6
42.5°	21661.5	21688.1	21781.3	21824.2	21299.1	20612.8	20660.1	20735.5	21560.9	20507.8	11353.6
45°	21963.2	22020.9	22547.4	23581.3	23778.1	23242.6	22747.1	22788.5	23242.6	22063.8	11884.6
47.5°	21056.5	21163.0	22179.1	24102.0	25767.4	26146.1	25208.3	25153.6	24856.3	23322.5	12261.8
50°	18996.1	19093.7	20410.1	23254.4	26370.9	28917.9	28157.7	27996.5	26271.8	24075.4	12394.9
52.5°	16014.2	16132.6	17202.0	20586.1	25233.5	30154.5	30950.2	30815.6	27310.1	24134.5	12417.1
55°	11309.2	11452.7	12584.2	15777.6	21628.9	29170.9	31939.7	31899.8	28172.5	23977.7	12464.4
57.5°	6355.7	6459.2	7679.5	10114.1	15841.2	25408.0	30905.8	31170.6	28693.1	23705.6	12535.4
60°	2822.1	2850.2	3481.8	5034.9	9274.0	19417.7	27946.2	28392.9	28246.4	23341.7	12655.2
62.5°	1564.9	1541.2	1541.2	2092.9	4030.6	12020.7	22788.5	23526.6	26339.9	22911.3	12661.1
65°	1226.2	1204.0	1140.4	1149.3	1535.3	5335.1	15780.5	17092.5	22719.0	21649.6	12235.1
67.5°	1039.8	1020.6	957.0	931.8	954.0	1760.1	8670.5	10032.8	17238.9	18370.5	10597.8
70°	878.6	865.3	832.7	801.7	745.5	869.7	3317.6	4243.5	10622.9	12220.3	7234.3
72.5°	707.0	701.1	712.9	686.3	618.3	579.8	1134.5	1374.1	4771.6	5453.5	2980.4
75°	609.4	606.4	612.3	585.7	508.8	403.8	576.8	630.1	1346.0	1334.2	603.5
77.5°	396.4	400.8	507.3	495.5	437.8	269.2	298.8	322.4	408.2	306.2	183.4
80°	252.9	250.0	257.4	411.2	393.4	205.6	149.4	156.8	196.7	150.9	88.7
82.5°	153.8	150.9	168.6	192.3	198.2	143.5	91.7	93.2	122.8	97.6	47.3
85°	13.3	17.7	102.1	94.7	68.0	44.4	44.4	47.3	65.1	57.7	26.6
87.5°	0.0	0.0	17.7	26.6	14.8	16.3	16.3	17.7	25.1	25.1	13.3
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°	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6	7670.6
2.5°	7676.5	7522.7	7212.1	6913.3	6660.4	6416.3	6138.3	5863.2	5734.5	5682.7	5629.5
5°	7689.9	7373.3	6732.9	6088.0	5419.4	4817.4	4304.2	3777.6	3514.3	3399.0	3345.7
7.5°	7707.6	7225.4	6190.0	5107.3	4030.6	3214.1	2501.2	2042.6	1844.4	1813.4	1736.5
10°	7710.6	7046.4	5559.9	4024.6	2702.3	1937.6	1490.9	1254.3	1167.0	1152.2	1127.1
12.5°	7716.5	6834.9	4860.3	2980.4	1801.5	1295.7	1078.3	999.9	976.2	974.7	974.7
15°	7734.2	6613.1	4134.1	2147.7	1294.2	1026.5	946.6	915.6	906.7	911.1	909.6
17.5°	7734.2	6351.3	3421.2	1600.4	1045.7	923.0	878.6	857.9	854.9	859.4	860.8
20°	7678.0	6033.3	2767.4	1245.4	927.4	856.4	816.5	797.2	789.8	792.8	794.3
22.5°	7543.4	5642.8	2234.9	1030.9	849.0	795.8	752.9	723.3	711.4	712.9	712.9
25°	7333.4	5179.8	1748.3	891.9	785.4	730.7	680.4	646.4	639.0	637.5	640.5
27.5°	7064.2	4668.0	1391.8	785.4	710.0	658.2	607.9	579.8	573.9	575.4	576.8
30°	6799.4	4137.0	1097.5	695.2	625.7	576.8	538.4	525.1	525.1	529.5	531.0
32.5°	6556.9	3626.8	868.2	616.8	550.2	505.9	483.7	482.2	489.6	492.5	494.0
35°	6348.3	3154.9	718.8	556.1	491.1	452.6	445.2	451.1	460.0	465.9	467.4
37.5°	6200.4	2733.4	628.6	505.9	445.2	414.1	412.7	424.5	436.3	449.6	452.6
40°	6138.3	2376.9	566.5	461.5	408.2	384.6	380.1	396.4	418.6	437.8	440.8
42.5°	6086.5	2085.5	513.2	418.6	378.7	344.6	343.2	363.9	390.5	409.7	414.1
45°	6042.1	1851.8	464.4	372.7	340.2	295.8	300.3	326.9	347.6	368.3	372.7
47.5°	5950.4	1659.6	411.2	323.9	281.0	252.9	261.8	285.5	301.7	332.8	337.2
50°	5786.2	1502.8	356.5	264.8	229.3	218.9	232.2	248.5	269.2	295.8	298.8
52.5°	5675.3	1384.4	309.1	221.9	189.3	192.3	205.6	211.5	223.3	233.7	230.7
55°	5611.7	1319.4	270.7	192.3	161.2	170.1	173.1	165.7	159.7	149.4	145.0
57.5°	5604.3	1260.2	241.1	167.1	142.0	146.4	136.1	110.9	90.2	78.4	75.4
60°	5592.5	1187.7	217.4	140.5	125.7	119.8	97.6	60.6	42.9	39.9	39.9
62.5°	5463.8	1075.3	199.7	118.3	106.5	90.2	56.2	28.1	23.7	25.1	25.1
65°	5054.1	918.5	181.9	96.1	84.3	65.1	28.1	16.3	8.9	10.4	10.4
67.5°	4296.8	732.2	162.7	74.0	63.6	41.4	16.3	7.4	0.0	0.0	0.0
70°	2876.9	454.1	137.6	51.8	41.4	25.1	11.8	1.5	0.0	0.0	0.0
72.5°	1103.4	245.5	110.9	31.1	26.6	17.7	7.4	0.0	0.0	0.0	0.0
75°	248.5	161.2	76.9	22.2	19.2	11.8	3.0	0.0	0.0	0.0	0.0
77.5°	94.7	116.8	44.4	14.8	13.3	7.4	0.0	0.0	0.0	0.0	0.0
80°	45.9	69.5	20.7	8.9	7.4	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.7	26.6	8.9	4.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	13.3	4.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.4	1.5	1.5	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)