

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: P323374

Luminaire Tested: **GAN-SA0C-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46080 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

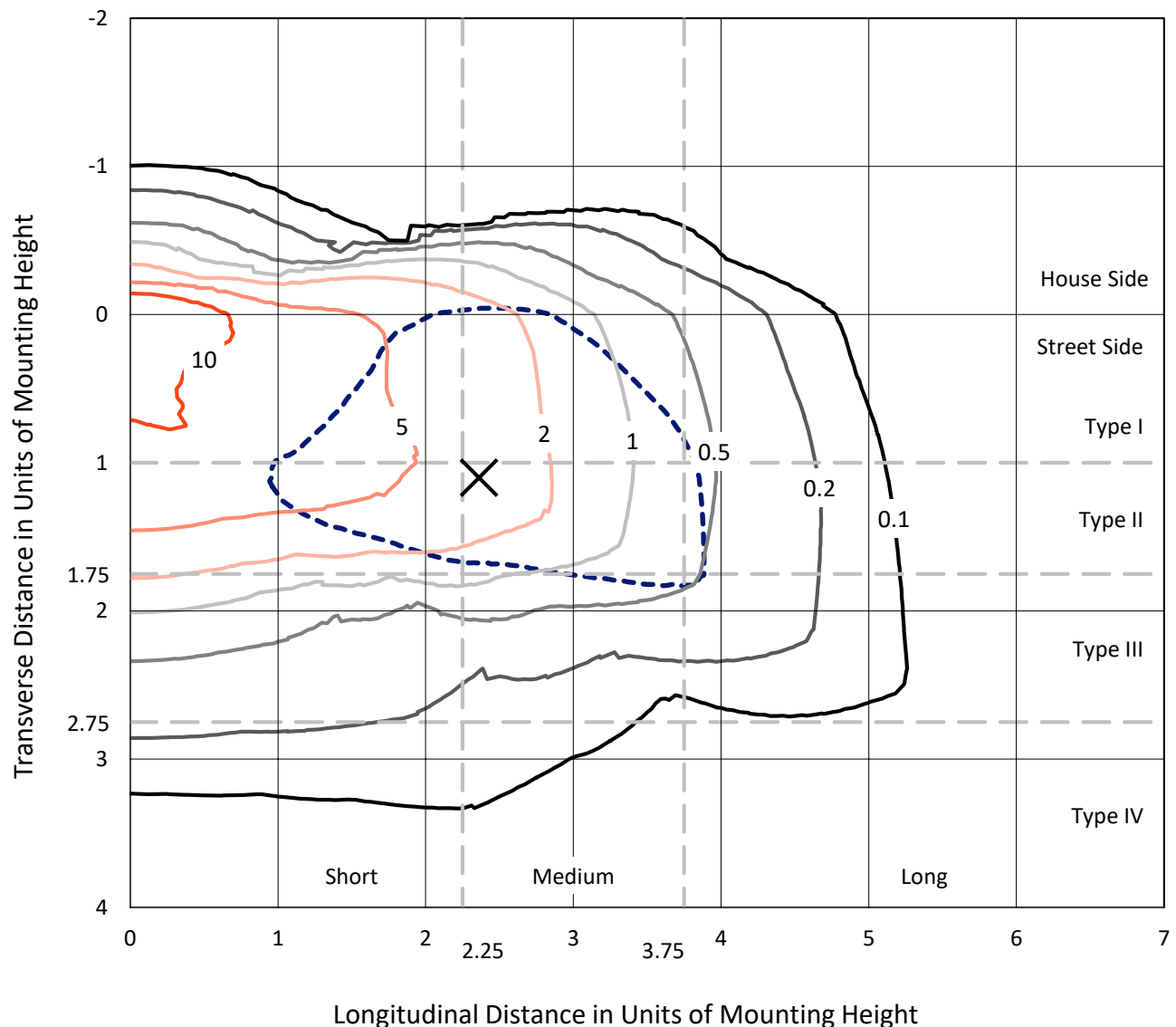
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

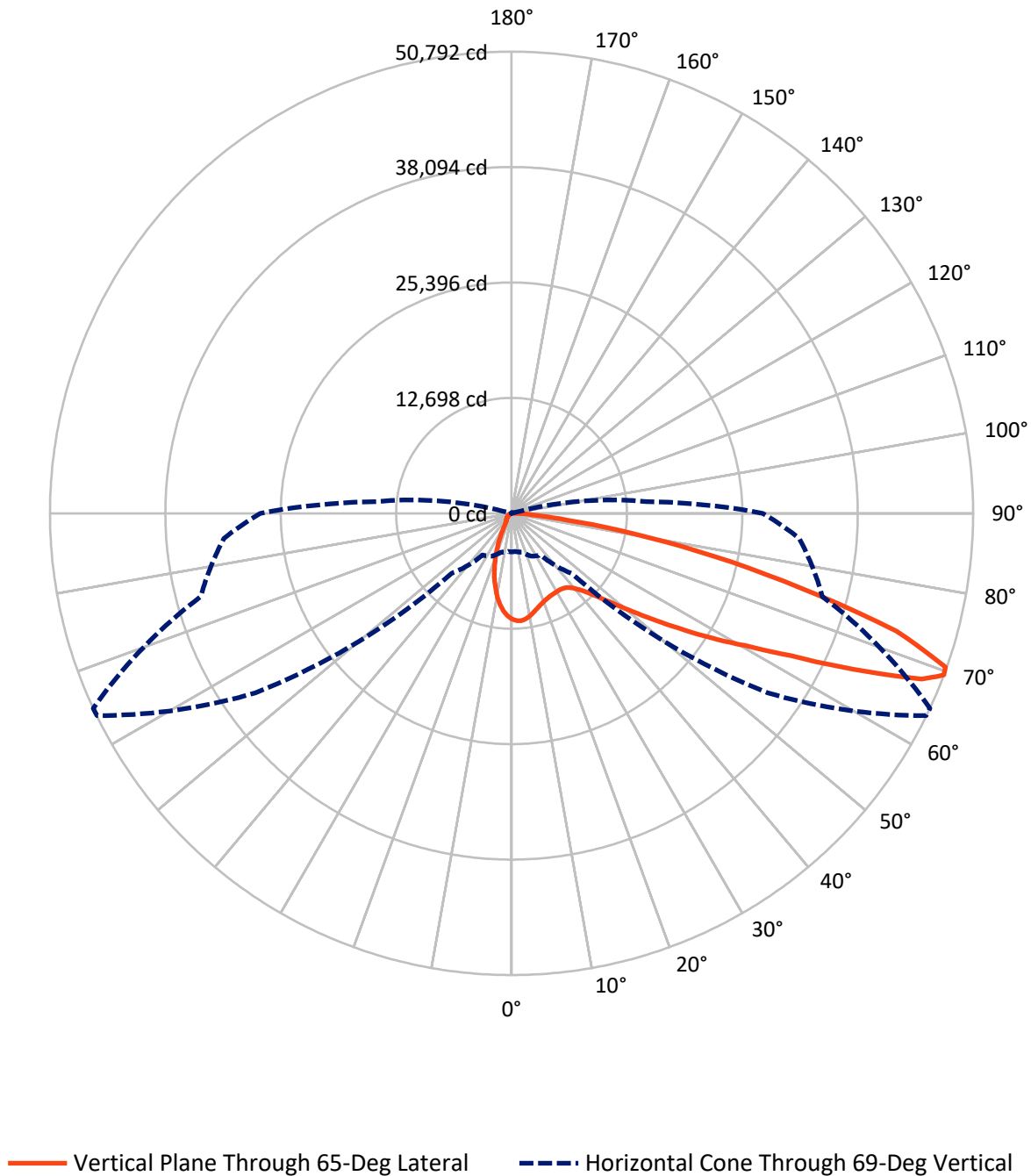
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5431.7	0.0	5431.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	40648.3	0.0	40648.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	46080.0	0.0	46080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	973.7	2.1
10°-20°	2131.5	4.6
20°-30°	2952.2	6.4
30°-40°	4116.3	8.9
40°-50°	6398.2	13.9
50°-60°	10271.5	22.3
60°-70°	11618.8	25.2
70°-80°	6823.8	14.8
80°-90°	793.8	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°	46080.0	100.0
0°-180°	46080.0	100.0

Coefficient of Utilization



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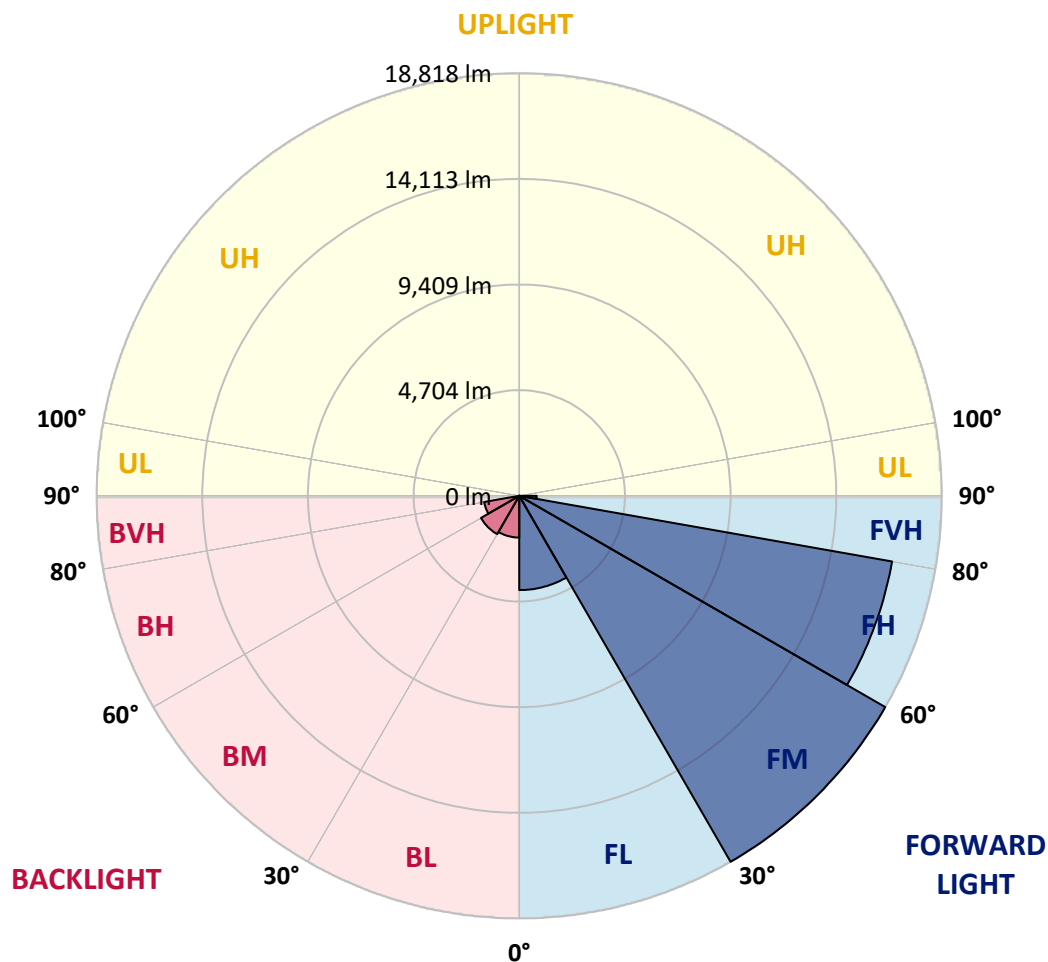
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4199.0	9.1			
FM	(30°-60°)	18817.7	40.8			
FH	(60°-80°)	16855.6	36.6			G5
FVH	(80°-90°)	775.9	1.7			G5
BL	(0°-30°)	1858.5	4.0	B3/2500		
BM	(30°-60°)	1968.3	4.3	B2/2500		
BH	(60°-80°)	1587.0	3.4	B3/2500		G3/2500
BVH	(80°-90°)	17.8	0.0			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°	64°	65°	75°	85°
0°	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5
2.5°	11747.8	11718.6	11742.0	11792.7	11818.0	11818.0	11837.5	11814.1	11821.9	11765.4	11683.5
5°	11012.7	10967.9	11032.2	11174.6	11350.1	11500.2	11722.5	11839.5	11851.2	11853.1	11757.6
7.5°	10221.1	10180.2	10275.7	10443.4	10669.6	10948.4	11336.4	11675.7	11695.2	11878.5	11808.3
10°	9577.7	9548.4	9659.6	9838.9	10104.1	10416.1	10891.9	11363.7	11420.3	11825.8	11800.5
12.5°	9066.8	9043.4	9148.7	9355.4	9626.4	9971.5	10468.7	11016.6	11092.7	11706.9	11761.5
15°	8694.4	8690.5	8778.2	8977.1	9277.4	9599.1	10108.0	10694.9	10782.7	11578.2	11755.6
17.5°	8499.4	8505.2	8569.6	8739.2	8996.6	9316.4	9803.8	10423.9	10519.4	11463.2	11784.9
20°	8479.9	8485.7	8520.8	8616.4	8825.0	9107.7	9556.2	10195.8	10295.2	11377.4	11831.7
22.5°	8651.5	8647.6	8657.3	8647.6	8764.6	8979.1	9392.4	10020.3	10135.3	11320.8	11868.7
25°	8981.0	8975.2	8971.3	8899.1	8821.1	8936.2	9324.2	9920.8	10030.0	11279.9	11890.2
27.5°	9439.2	9435.3	9429.5	9310.5	9076.5	9004.4	9332.0	9883.8	9975.4	11246.7	11886.3
30°	10041.7	10069.0	10061.2	9895.5	9530.9	9213.0	9413.9	9864.3	9944.2	11182.4	11845.3
32.5°	10749.5	10804.1	10847.0	10669.6	10213.3	9626.4	9603.0	9885.7	9944.2	11133.6	11771.2
35°	11484.6	11554.8	11712.7	11650.3	11049.8	10248.4	9928.6	10014.4	10063.2	11160.9	11736.1
37.5°	12208.0	12291.8	12635.0	12816.4	12145.6	11071.2	10435.6	10332.2	10357.6	11326.7	11775.1
40°	13048.4	13175.1	13695.7	13988.2	13454.0	12172.9	11194.1	10878.2	10888.0	11691.3	11956.5
42.5°	14152.0	14282.6	14846.1	15304.4	14928.0	13565.1	12223.6	11712.7	11703.0	12373.7	12383.5
45°	15497.4	15633.9	16216.9	16725.8	16556.2	15214.7	13541.7	12931.4	12919.7	13450.1	13192.7
47.5°	17022.2	17156.7	17677.3	18201.8	18385.1	17141.1	15220.5	14594.6	14567.3	14945.6	14442.5
50°	18330.5	18418.3	18897.9	19603.8	20430.5	19508.2	17308.8	16706.3	16677.1	16932.5	16277.3
52.5°	18806.3	18857.0	19344.4	20333.0	22396.0	22713.8	20052.2	19276.2	19254.8	19365.9	18720.5
55°	17843.1	17934.7	18533.3	19999.6	23460.6	26336.6	23515.2	22458.4	22296.5	22056.7	21274.8
57.5°	15218.6	15364.8	16008.3	17958.1	22963.4	29210.7	28604.3	26057.8	25819.9	24353.6	23351.4
60°	11402.7	11582.1	12116.4	14220.2	20309.6	30234.4	34165.2	30068.6	29532.4	26182.6	25260.3
62.5°	7824.7	7914.4	8277.1	9647.9	14957.3	28557.5	38817.6	35440.5	34461.6	28171.4	27325.2
65°	5976.3	6007.5	6155.7	6627.5	8906.9	23197.4	40668.0	42528.2	41344.6	30550.2	29468.1
67.5°	4816.1	4790.8	4995.5	5670.2	5964.6	14152.0	38509.5	49233.7	48679.9	33730.4	31624.6
69°	4246.8	4211.7	4420.3	5204.1	5601.9	9355.4	34426.5	50756.5	50791.6	35409.3	31772.8
70°	3821.7	3845.1	4051.8	4927.3	5479.1	7343.1	30526.8	50368.5	50645.4	36037.1	30883.7
72.5°	2552.4	2614.7	3030.1	4090.8	5268.5	5557.1	18431.9	43222.3	44286.9	34623.5	26496.5
75°	1439.0	1485.8	1979.1	3084.7	4964.3	5291.9	9735.6	31843.0	32872.5	28953.3	20432.5
77.5°	705.8	731.2	1119.2	1990.8	4151.2	5042.3	5522.0	21629.7	22805.4	18897.9	11556.8
80°	298.3	312.0	559.6	1228.4	2967.7	4812.2	4100.5	13311.6	13457.9	7403.6	3078.8
82.5°	115.0	118.9	235.9	766.3	1885.5	3751.5	3429.8	6311.7	6159.6	1394.1	701.9
85°	13.6	15.6	85.8	460.2	1049.0	1930.4	2786.3	2720.0	2517.3	276.9	360.7
87.5°	0.0	0.0	5.8	140.4	312.0	904.7	1448.7	1129.0	1017.8	89.7	187.2
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°	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5	11644.5
2.5°	11615.2	11595.8	11490.5	11338.4	11194.1	11014.7	10843.1	10739.8	10657.9	10603.3	10667.6
5°	11646.4	11560.7	11240.9	10831.4	10429.7	9977.4	9556.2	9199.4	9059.0	8903.0	8973.2
7.5°	11636.7	11474.9	10899.7	10170.4	9433.4	8671.0	7949.5	7393.8	7105.2	6822.5	6894.7
10°	11588.0	11315.0	10443.4	9363.2	8259.6	7163.7	6140.1	5362.1	4927.3	4533.4	4589.9
12.5°	11480.7	11100.5	9905.2	8438.9	6962.9	5518.1	4318.9	3322.5	2788.3	2552.4	2581.6
15°	11416.4	10891.9	9335.9	7503.0	5578.5	3843.2	2640.1	1963.5	1719.8	1641.8	1651.5
17.5°	11385.2	10691.0	8747.0	6432.6	4162.9	2447.1	1706.1	1505.3	1452.6	1439.0	1442.9
20°	11354.0	10488.2	8140.6	5373.8	2868.2	1645.7	1401.9	1343.4	1323.9	1306.4	1310.3
22.5°	11301.3	10293.3	7489.4	4301.4	1934.2	1335.6	1263.5	1207.0	1166.0	1144.6	1148.5
25°	11237.0	10088.5	6824.5	3203.6	1411.7	1191.4	1123.1	1043.2	994.4	955.4	957.4
27.5°	11133.6	9837.0	6138.1	2332.0	1185.5	1066.6	974.9	887.2	805.3	760.4	760.4
30°	10989.3	9552.3	5375.7	1669.1	1062.7	943.7	832.6	723.4	635.7	594.7	590.8
32.5°	10829.5	9255.9	4605.5	1265.5	965.2	828.7	701.9	586.9	508.9	475.8	473.8
35°	10693.0	8936.2	3837.3	1060.7	867.7	717.5	579.1	481.6	419.2	391.9	390.0
37.5°	10605.2	8616.4	3088.6	947.6	779.9	614.2	485.5	397.8	352.9	331.5	329.5
40°	10591.6	8378.5	2404.2	861.8	698.0	522.6	405.6	337.3	296.4	273.0	271.0
42.5°	10769.0	8242.0	1844.6	789.7	614.2	442.6	345.1	288.6	245.7	222.3	220.3
45°	11235.0	8284.9	1419.5	725.3	530.4	374.4	292.5	239.8	200.8	183.3	179.4
47.5°	12085.2	8581.3	1129.0	661.0	450.4	317.8	249.6	198.9	165.7	148.2	146.2
50°	13598.2	9277.4	943.7	590.8	376.3	271.0	206.7	161.8	134.5	118.9	117.0
52.5°	15606.6	10517.5	842.3	522.6	312.0	230.1	169.6	128.7	105.3	93.6	91.6
55°	17821.6	12018.9	776.0	448.5	255.4	191.1	134.5	101.4	81.9	72.1	68.2
57.5°	19984.0	13319.4	713.6	376.3	212.5	156.0	107.2	79.9	64.3	54.6	52.6
60°	21970.9	14514.7	641.5	302.2	173.5	122.8	83.8	62.4	50.7	40.9	40.9
62.5°	24098.2	15438.9	542.1	235.9	142.3	93.6	68.2	56.5	40.9	35.1	33.1
65°	26352.2	16125.2	425.1	183.3	111.1	70.2	56.5	58.5	33.1	25.3	23.4
67.5°	28017.4	15988.8	313.9	144.3	85.8	54.6	54.6	62.4	29.2	19.5	17.5
69°	27650.8	14879.3	263.2	124.8	74.1	46.8	50.7	62.4	27.3	17.5	15.6
70°	26588.1	13650.9	232.0	111.1	66.3	42.9	48.7	60.4	25.3	17.5	15.6
72.5°	22142.5	10281.6	181.3	83.8	52.6	35.1	40.9	52.6	25.3	17.5	13.6
75°	16655.6	6580.7	138.4	60.4	39.0	27.3	31.2	39.0	25.3	15.6	13.6
77.5°	9062.9	2373.0	99.4	40.9	27.3	21.4	21.4	29.2	23.4	11.7	7.8
80°	2330.1	596.7	62.4	27.3	21.4	15.6	13.6	19.5	13.6	1.9	0.0
82.5°	575.2	134.5	33.1	19.5	15.6	5.8	5.8	9.7	5.8	0.0	0.0
85°	315.9	66.3	21.4	13.6	7.8	0.0	0.0	1.9	0.0	0.0	0.0
87.5°	161.8	19.5	5.8	3.9	1.9	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)