

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: P323184

Luminaire Tested: **GAN-SA0D-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323184  
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-SA0D-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1200mA 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: 57930 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

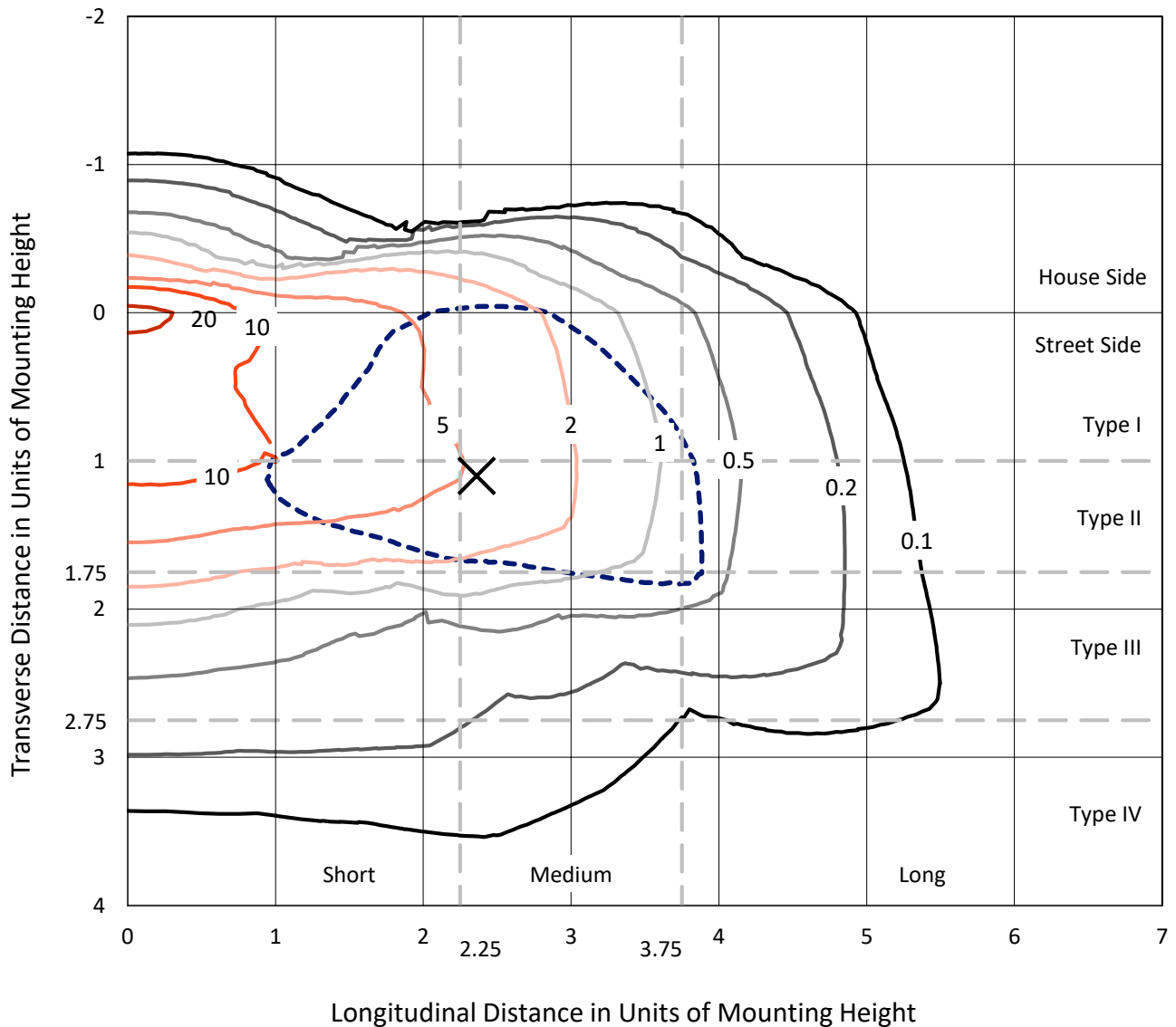
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

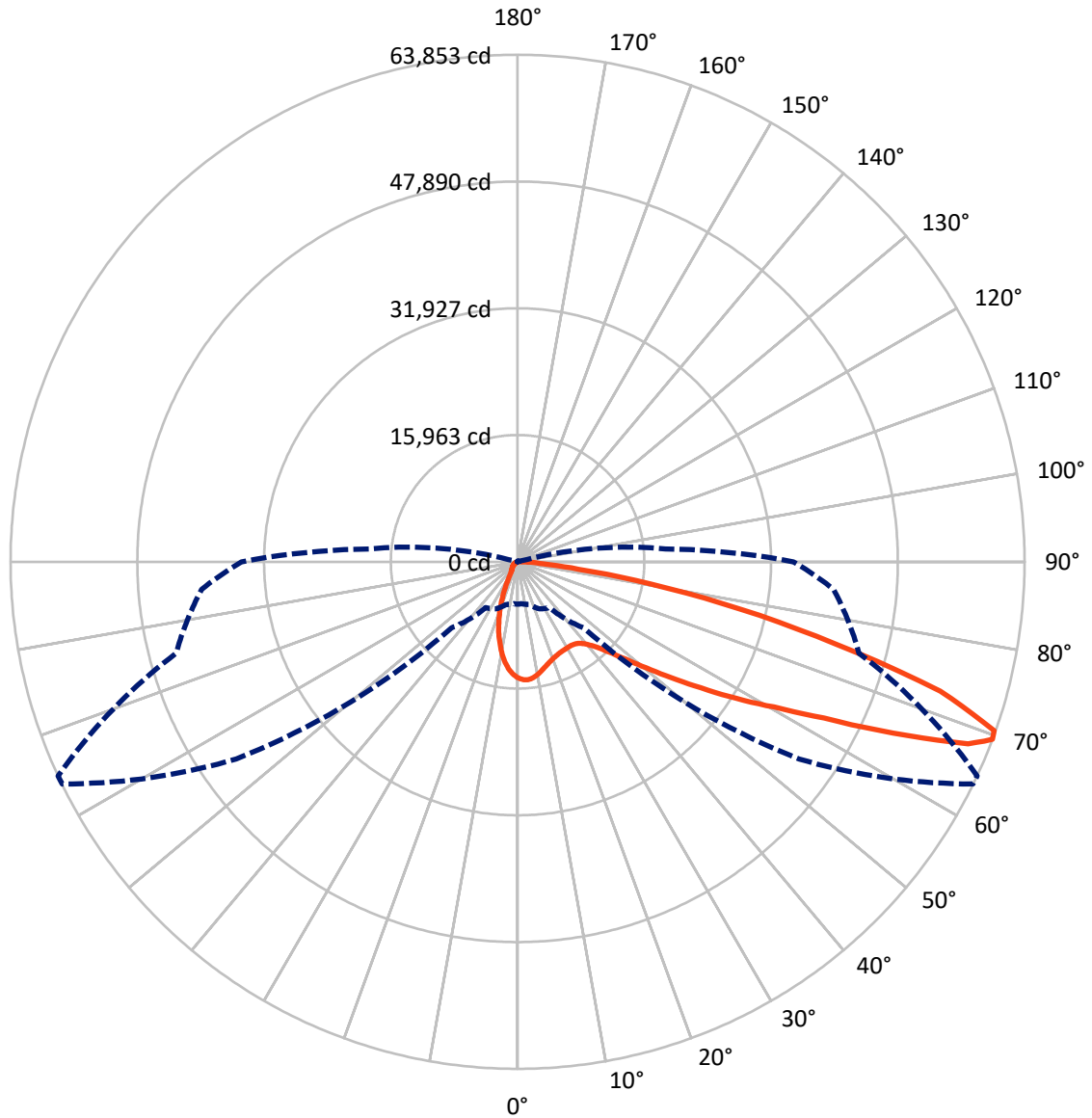
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6828.6	0.0	6828.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	51101.4	0.0	51101.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	57930.0	0.0	57930.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1224.1	2.1
10°-20°	2679.7	4.6
20°-30°	3711.4	6.4
30°-40°	5174.9	8.9
40°-50°	8043.5	13.9
50°-60°	12913.0	22.3
60°-70°	14606.7	25.2
70°-80°	8578.7	14.8
80°-90°	997.9	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°	57930.0	100.0
0°-180°	57930.0	100.0

**Coefficient of Utilization**

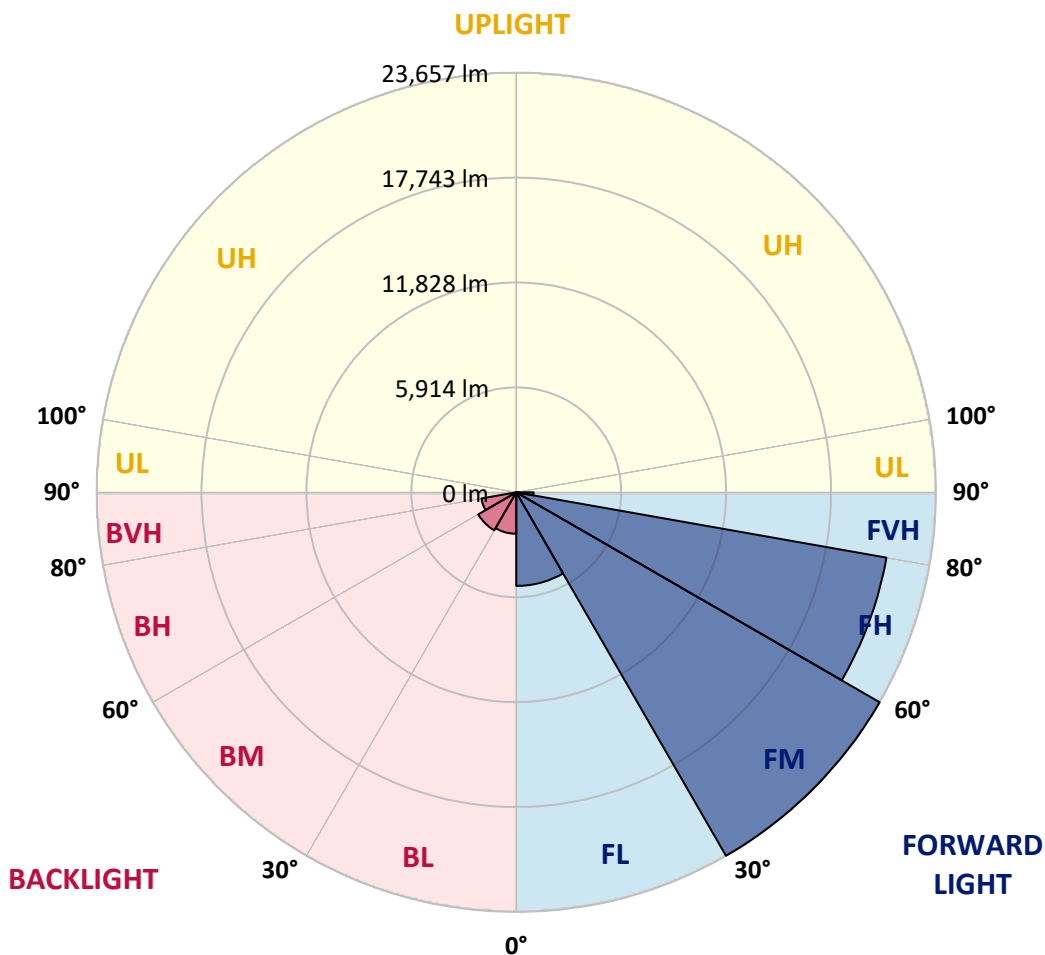


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5278.8	9.1			
FM (30°-60°)	23656.9	40.8			
FH (60°-80°)	21190.2	36.6			G5
FVH (80°-90°)	975.5	1.7			G5
BL (0°-30°)	2336.4	4.0	B3/2500		
BM (30°-60°)	2474.5	4.3	B2/2500		
BH (60°-80°)	1995.2	3.4	B3/2500		G3/2500
BVH (80°-90°)	22.5	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°	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0
2.5°	14768.9	14732.2	14761.6	14825.3	14857.2	14857.2	14881.7	14852.3	14862.1	14791.0	14688.0
5°	13844.8	13788.4	13869.3	14048.3	14268.9	14457.6	14737.1	14884.1	14898.8	14901.3	14781.2
7.5°	12849.6	12798.1	12918.2	13129.0	13413.4	13763.9	14251.7	14678.2	14702.7	14933.2	14844.9
10°	12040.7	12003.9	12143.6	12369.1	12702.5	13094.7	13692.8	14286.0	14357.1	14867.0	14835.1
12.5°	11398.4	11369.0	11501.4	11761.2	12101.9	12535.8	13160.9	13849.7	13945.3	14717.5	14786.1
15°	10930.2	10925.3	11035.6	11285.7	11663.2	12067.6	12707.4	13445.2	13555.5	14555.7	14778.7
17.5°	10685.1	10692.5	10773.4	10986.6	11310.2	11712.2	12325.0	13104.5	13224.6	14411.0	14815.5
20°	10660.6	10667.9	10712.1	10832.2	11094.5	11449.9	12013.7	12817.7	12942.7	14303.2	14874.3
22.5°	10876.3	10871.4	10883.7	10871.4	11018.5	11288.1	11807.8	12597.1	12741.7	14232.1	14920.9
25°	11290.6	11283.2	11278.3	11187.6	11089.6	11234.2	11722.0	12472.1	12609.4	14180.6	14947.9
27.5°	11866.6	11861.7	11854.4	11704.8	11410.7	11320.0	11731.8	12425.5	12540.7	14139.0	14943.0
30°	12624.1	12658.4	12648.6	12440.2	11981.8	11582.3	11834.8	12401.0	12501.5	14058.1	14891.5
32.5°	13513.9	13582.5	13636.4	13413.4	12839.8	12101.9	12072.5	12428.0	12501.5	13996.8	14798.3
35°	14438.0	14526.3	14724.8	14646.4	13891.4	12883.9	12481.9	12589.7	12651.0	14031.1	14754.2
37.5°	15347.4	15452.8	15884.3	16112.2	15269.0	13918.3	13119.2	12989.3	13021.2	14239.5	14803.2
40°	16403.9	16563.3	17217.8	17585.4	16913.8	15303.3	14072.8	13675.7	13687.9	14697.8	15031.2
42.5°	17791.4	17955.6	18664.0	19240.1	18767.0	17053.5	15367.0	14724.8	14712.6	15555.8	15568.0
45°	19482.7	19654.3	20387.3	21027.0	20813.8	19127.3	17024.1	16256.9	16242.1	16908.9	16585.3
47.5°	21399.6	21568.8	22223.3	22882.6	23113.1	21549.2	19134.7	18347.8	18313.5	18789.0	18156.6
50°	23044.4	23154.7	23757.8	24645.1	25684.5	24525.0	21760.0	21002.5	20965.8	21286.9	20463.2
52.5°	23642.5	23706.3	24319.1	25561.9	28155.3	28554.9	25208.9	24233.3	24206.3	24346.1	23534.7
55°	22431.6	22546.8	23299.4	25142.7	29493.7	33109.4	29562.4	28233.8	28030.3	27728.8	26745.9
57.5°	19132.2	19316.0	20125.0	22576.2	28868.7	36722.5	35960.2	32758.8	32459.8	30616.4	29356.5
60°	14335.1	14560.6	15232.2	17877.1	25532.5	38009.5	42951.2	37801.1	37127.0	32915.7	31756.3
62.5°	9837.0	9949.7	10405.7	12128.9	18803.7	35901.4	48800.0	44554.4	43323.8	35416.0	34352.2
65°	7513.2	7552.4	7738.7	8331.9	11197.4	29162.8	51126.2	53464.8	51976.8	38406.6	37046.1
67.5°	6054.6	6022.8	6280.2	7128.3	7498.4	17791.4	48412.7	61894.7	61198.5	42404.6	39757.2
69°	5338.9	5294.8	5557.0	6542.5	7042.5	11761.2	43279.7	63809.1	63853.3	44515.1	39943.5
70°	4804.5	4833.9	5093.7	6194.4	6888.1	9231.5	38377.2	63321.3	63669.4	45304.5	38825.7
72.5°	3208.7	3287.2	3809.3	5142.8	6623.3	6986.1	23171.9	54337.4	55675.8	43527.3	33310.4
75°	1809.0	1867.9	2488.0	3877.9	6240.9	6652.8	12239.2	40031.8	41326.0	36399.0	25686.9
77.5°	887.4	919.2	1407.0	2502.8	5218.8	6339.0	6942.0	27192.0	28670.1	23757.8	14528.7
80°	375.0	392.2	703.5	1544.3	3730.8	6049.7	5155.0	16734.9	16918.7	9307.5	3870.6
82.5°	144.6	149.5	296.6	963.4	2370.4	4716.3	4311.8	7934.8	7743.6	1752.7	882.5
85°	17.2	19.6	107.9	578.5	1318.8	2426.8	3502.9	3419.5	3164.6	348.1	453.5
87.5°	0.0	0.0	7.4	176.5	392.2	1137.4	1821.3	1419.3	1279.6	112.8	235.3
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°	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0	14639.0
2.5°	14602.2	14577.7	14445.4	14254.2	14072.8	13847.3	13631.5	13501.6	13398.7	13330.0	13410.9
5°	14641.5	14533.6	14131.6	13616.8	13111.9	12543.2	12013.7	11565.1	11388.6	11192.5	11280.8
7.5°	14629.2	14425.8	13702.6	12785.8	11859.3	10900.8	9993.8	9295.2	8932.4	8577.0	8667.7
10°	14567.9	14224.7	13129.0	11771.0	10383.6	9006.0	7719.1	6741.0	6194.4	5699.2	5770.3
12.5°	14433.1	13955.1	12452.5	10609.1	8753.5	6937.1	5429.6	4177.0	3505.3	3208.7	3245.5
15°	14352.2	13692.8	11736.7	9432.5	7013.1	4831.5	3319.0	2468.4	2162.0	2064.0	2076.2
17.5°	14313.0	13440.3	10996.4	8086.8	5233.5	3076.3	2144.9	1892.4	1826.2	1809.0	1813.9
20°	14273.8	13185.4	10234.1	6755.7	3605.8	2068.9	1762.5	1688.9	1664.4	1642.4	1647.3
22.5°	14207.6	12940.3	9415.3	5407.5	2431.7	1679.1	1588.4	1517.3	1465.9	1438.9	1443.8
25°	14126.7	12682.9	8579.5	4027.4	1774.7	1497.7	1411.9	1311.4	1250.2	1201.1	1203.6
27.5°	13996.8	12366.7	7716.6	2931.7	1490.4	1340.8	1225.6	1115.3	1012.4	956.0	956.0
30°	13815.4	12008.8	6758.2	2098.3	1335.9	1186.4	1046.7	909.4	799.1	747.6	742.7
32.5°	13614.4	11636.2	5789.9	1590.9	1213.4	1041.8	882.5	737.8	639.8	598.1	595.7
35°	13442.8	11234.2	4824.1	1333.5	1090.8	902.1	728.0	605.5	527.0	492.7	490.3
37.5°	13332.5	10832.2	3882.8	1191.3	980.5	772.2	610.4	500.1	443.7	416.7	414.3
40°	13315.3	10533.1	3022.4	1083.5	877.6	656.9	509.9	424.1	372.6	343.2	340.7
42.5°	13538.4	10361.5	2318.9	992.8	772.2	556.4	433.9	362.8	308.9	279.4	277.0
45°	14124.2	10415.5	1784.5	911.9	666.7	470.6	367.7	301.5	252.5	230.4	225.5
47.5°	15193.0	10788.1	1419.3	831.0	566.2	399.6	313.8	250.0	208.4	186.3	183.8
50°	17095.2	11663.2	1186.4	742.7	473.1	340.7	259.8	203.5	169.1	149.5	147.1
52.5°	19620.0	13222.2	1059.0	656.9	392.2	289.3	213.3	161.8	132.4	117.7	115.2
55°	22404.7	15109.7	975.6	563.8	321.1	240.2	169.1	127.5	103.0	90.7	85.8
57.5°	25123.1	16744.7	897.2	473.1	267.2	196.1	134.8	100.5	80.9	68.6	66.2
60°	27621.0	18247.3	806.5	379.9	218.2	154.4	105.4	78.4	63.7	51.5	51.5
62.5°	30295.3	19409.2	681.5	296.6	178.9	117.7	85.8	71.1	51.5	44.1	41.7
65°	33129.0	20272.0	534.4	230.4	139.7	88.2	71.1	73.5	41.7	31.9	29.4
67.5°	35222.4	20100.5	394.7	181.4	107.9	68.6	68.6	78.4	36.8	24.5	22.1
69°	34761.5	18705.7	330.9	156.9	93.1	58.8	63.7	78.4	34.3	22.1	19.6
70°	33425.6	17161.4	291.7	139.7	83.3	53.9	61.3	76.0	31.9	22.1	19.6
72.5°	27836.7	12925.6	228.0	105.4	66.2	44.1	51.5	66.2	31.9	22.1	17.2
75°	20938.8	8273.1	174.0	76.0	49.0	34.3	39.2	49.0	31.9	19.6	17.2
77.5°	11393.5	2983.2	125.0	51.5	34.3	27.0	27.0	36.8	29.4	14.7	9.8
80°	2929.3	750.1	78.4	34.3	27.0	19.6	17.2	24.5	17.2	2.5	0.0
82.5°	723.1	169.1	41.7	24.5	19.6	7.4	7.4	12.3	7.4	0.0	0.0
85°	397.1	83.3	27.0	17.2	9.8	0.0	0.0	2.5	0.0	0.0	0.0
87.5°	203.5	24.5	7.4	4.9	2.5	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)