

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: P301855

Luminaire Tested: **GAA-AF-10-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-10-LED-U-SL4-7030-HSS  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI  
3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV w/Spill  
Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

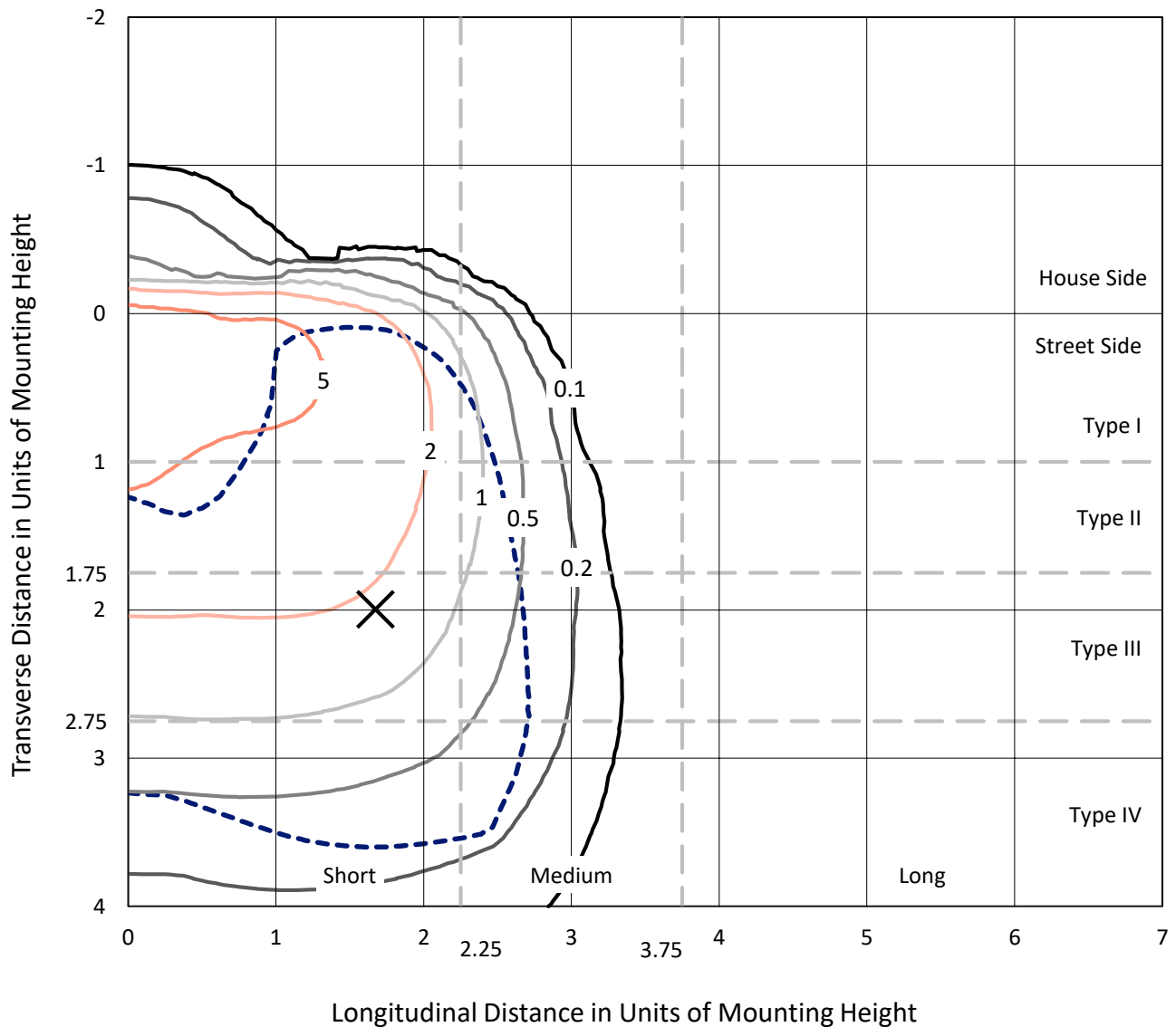
Lumens per Lamp: N/A  
Luminaire Lumens: 42025 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

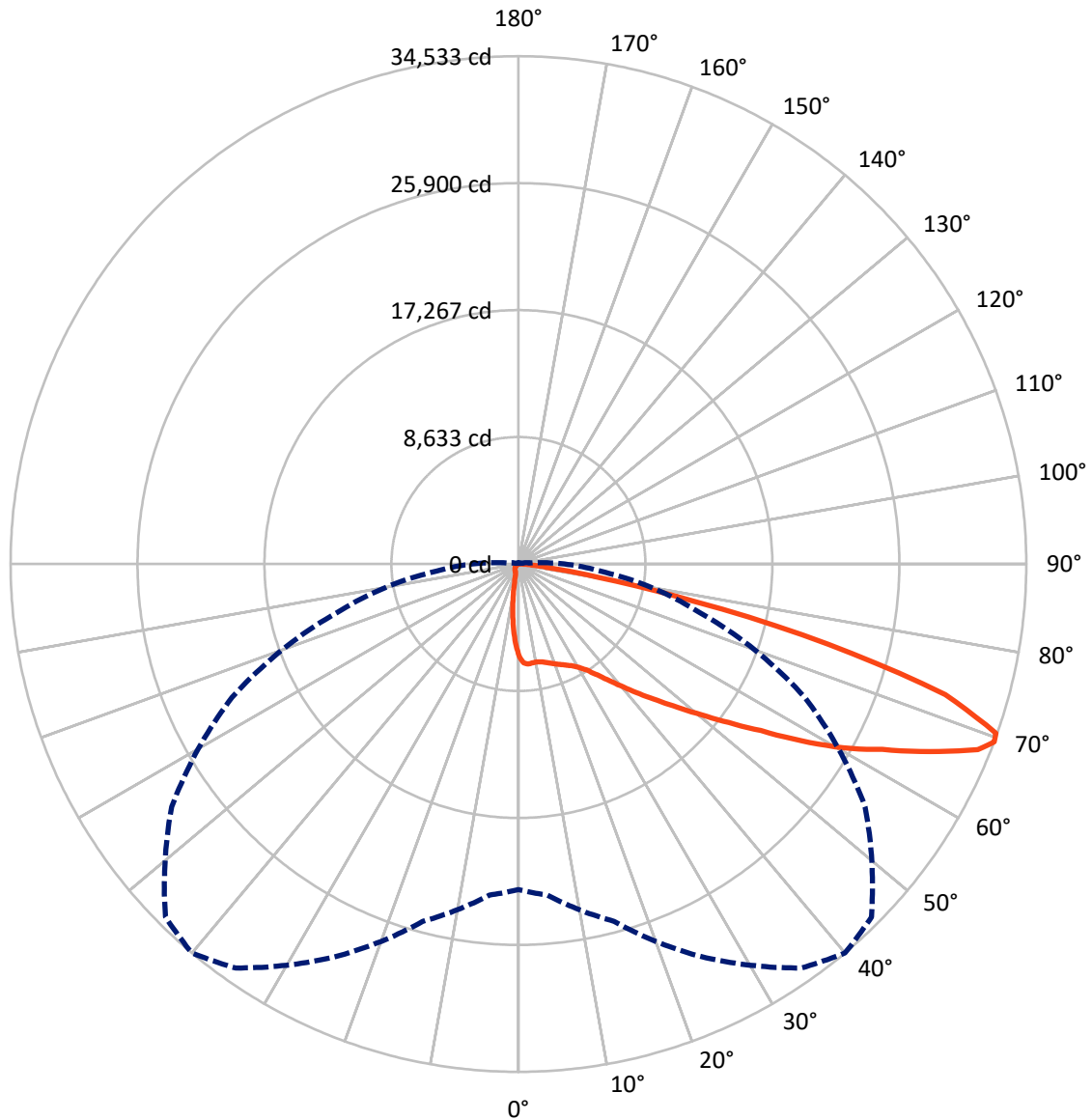
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2458.7	0.0	2458.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	39566.3	0.0	39566.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	42025.0	0.0	42025.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.1	1.2
10°-20°	1251.9	3.0
20°-30°	2108.7	5.0
30°-40°	3452.0	8.2
40°-50°	5977.0	14.2
50°-60°	9414.3	22.4
60°-70°	12294.8	29.3
70°-80°	6332.3	15.1
80°-90°	685.0	1.6
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°	42025.0	100.0
0°-180°	42025.0	100.0

**Coefficient of Utilization**



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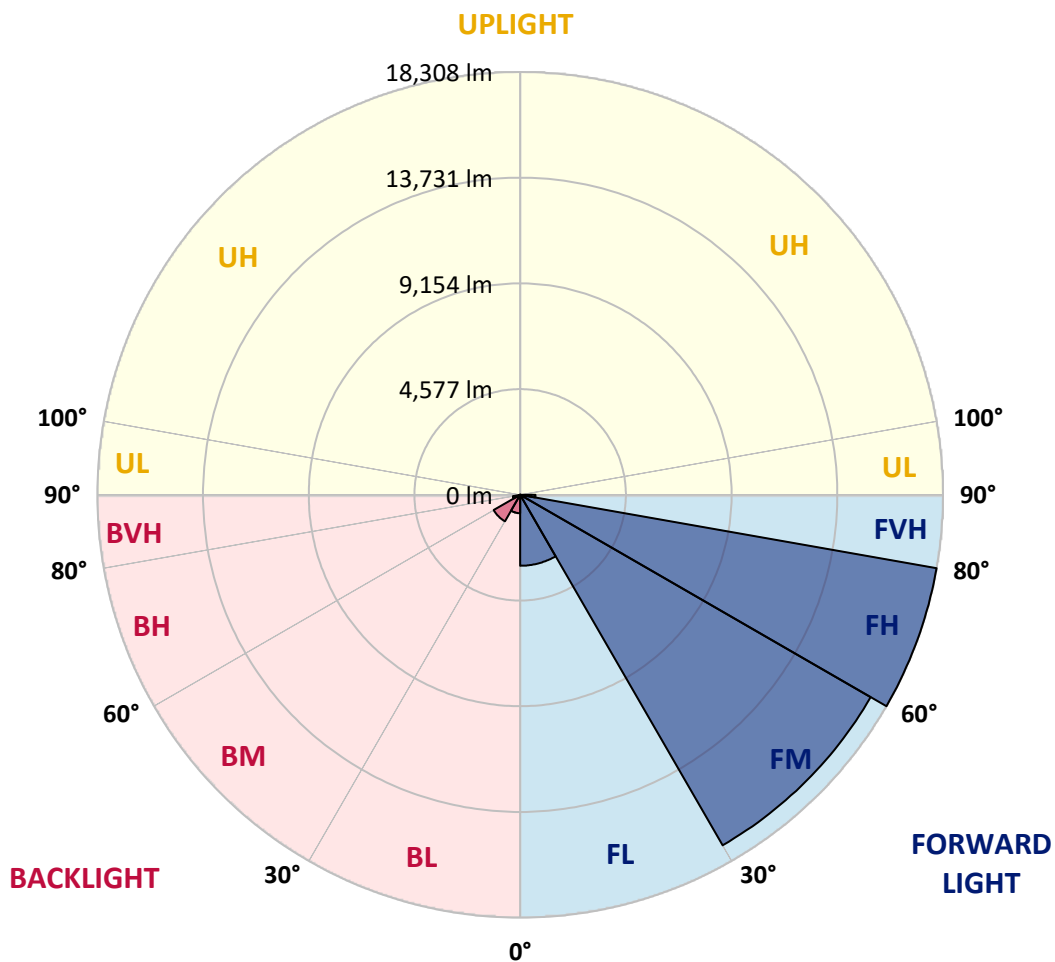
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3073.2	7.3			
FM	(30°-60°)	17521.8	41.7			
FH	(60°-80°)	18307.8	43.6			G5
FVH	(80°-90°)	663.5	1.6			G4/750
BL	(0°-30°)	796.4	1.9	B2/1000		
BM	(30°-60°)	1321.5	3.1	B2/2500		
BH	(60°-80°)	319.2	0.8	B1/500		G1/500
BVH	(80°-90°)	21.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8
2.5°	6894.1	6856.6	6834.1	6804.1	6766.5	6734.0	6721.5	6629.0	6541.4	6421.3	6283.8
5°	7021.7	7009.2	6969.2	6929.1	6884.1	6834.1	6806.6	6696.5	6571.4	6396.3	6156.2
7.5°	7034.2	7019.2	6969.2	6914.1	6851.6	6791.6	6744.0	6634.0	6518.9	6341.3	6048.6
10°	7014.2	6996.7	6959.2	6899.1	6821.6	6764.0	6716.5	6611.5	6513.9	6353.8	6028.6
12.5°	6991.7	6974.2	6956.7	6926.6	6859.1	6819.1	6779.1	6679.0	6591.4	6456.4	6101.2
15°	7014.2	7004.2	7024.2	7011.7	6974.2	6939.2	6899.1	6809.1	6729.0	6616.5	6233.7
17.5°	7109.3	7109.3	7171.8	7179.3	7144.3	7094.2	7036.7	6946.7	6879.1	6784.1	6391.3
20°	7331.9	7324.4	7404.4	7419.4	7334.4	7256.8	7171.8	7061.7	7009.2	6949.2	6546.4
22.5°	7714.6	7679.6	7727.1	7712.1	7544.5	7424.4	7319.4	7184.3	7156.8	7129.3	6719.0
25°	8212.4	8192.4	8224.9	8077.3	7782.2	7619.6	7494.5	7341.9	7341.9	7369.4	6914.1
27.5°	8935.3	8860.3	8750.2	8490.1	8047.3	7839.7	7704.6	7542.0	7584.5	7687.1	7171.8
30°	9675.8	9593.2	9340.6	8940.3	8370.0	8152.4	7994.8	7824.7	7924.7	8112.4	7517.0
32.5°	10406.2	10313.7	9956.0	9450.7	8832.8	8615.2	8462.6	8275.0	8442.6	8757.7	8022.3
35°	11114.2	11031.6	10618.9	10023.5	9448.2	9268.0	9128.0	8965.4	9180.5	9620.8	8735.2
37.5°	11909.6	11819.6	11316.8	10671.4	10196.1	10066.0	9963.5	9800.9	10176.1	10821.5	9728.3
40°	12887.7	12735.1	12057.2	11414.3	11061.6	10999.1	10929.0	10906.5	11489.4	12382.4	11051.6
42.5°	14008.4	13758.2	12832.7	12197.3	12012.2	12057.2	12039.7	12139.8	13132.9	14323.6	12662.6
45°	15129.1	14806.4	13695.7	13032.8	13057.8	13215.4	13313.0	13713.2	15191.6	16549.9	14396.1
47.5°	16079.6	15761.9	14523.7	13935.8	14236.0	14546.2	14811.4	15569.3	17307.9	18741.2	15744.4
50°	16892.6	16592.4	15401.7	14928.9	15604.3	16104.6	16534.9	17658.1	19584.2	20409.7	16690.0
52.5°	17558.0	17357.9	16312.3	16067.1	17167.8	17900.7	18531.1	19876.9	21600.4	21765.5	17425.4
55°	18205.9	18063.3	17290.3	17420.4	19003.9	20002.0	20799.9	22230.8	23336.5	22896.2	18130.8
57.5°	18951.3	18821.3	18406.0	19136.5	21417.8	22673.6	23544.1	24317.1	24864.9	24051.9	18796.2
60°	19711.8	19636.8	19646.8	21042.6	24189.5	25395.2	25875.5	26075.6	26365.8	25140.0	18833.8
62.5°	20437.2	20579.8	21065.1	23163.9	26843.6	27769.1	28011.8	28209.4	27869.2	25312.6	17400.4
65°	21665.5	21898.1	23056.3	26003.1	29762.8	30753.4	31003.6	30325.6	28106.8	23081.3	14153.5
67.5°	22265.8	22691.1	24757.3	28649.6	32594.5	33695.2	33602.6	30463.2	25222.6	17600.5	9082.9
69°	22140.7	22593.5	25150.0	29460.1	33535.1	34533.2	33945.3	28779.7	21487.9	12750.1	5575.8
70°	21645.5	22103.2	24947.4	29430.1	33655.1	34445.6	33309.9	26701.0	18168.4	9323.1	3487.1
72.5°	18075.8	18471.1	22148.3	26600.9	31003.6	30360.7	27866.7	18498.6	8852.8	2539.0	785.5
75°	11126.7	11346.8	15892.0	20039.5	23416.5	21765.5	18566.1	9203.0	2639.1	717.9	435.3
77.5°	5878.5	5978.6	8700.2	11812.1	14843.9	12282.3	9515.7	3589.6	1215.7	450.3	315.2
80°	3474.6	3549.6	4685.3	5400.7	6423.8	5365.7	3804.8	2203.8	870.5	282.7	280.2
82.5°	1988.7	2036.2	3397.0	3001.8	2531.5	2161.3	1893.6	2088.7	522.8	190.1	290.2
85°	730.4	740.4	1911.1	2283.9	1505.9	895.5	940.6	1731.0	140.1	120.1	227.6
87.5°	340.2	332.7	983.1	1398.3	880.5	567.8	732.9	380.2	55.0	77.5	62.5
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°	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8	6278.8
2.5°	6203.7	6111.2	5943.6	5771.0	5595.8	5460.8	5328.2	5223.1	5188.1	5123.1	5128.1
5°	6013.6	5843.5	5493.3	5138.1	4767.9	4462.7	4175.0	3942.4	3829.8	3714.7	3714.7
7.5°	5848.5	5600.9	5053.0	4475.2	3877.3	3374.5	2921.7	2581.5	2393.9	2243.8	2241.3
10°	5786.0	5450.8	4685.3	3857.3	3024.3	2338.9	1801.1	1455.9	1278.3	1163.2	1158.2
12.5°	5813.5	5398.2	4402.6	3287.0	2241.3	1503.4	1043.1	820.5	745.4	710.4	710.4
15°	5893.5	5383.2	4120.0	2729.1	1583.4	940.6	692.9	632.9	627.9	627.9	627.9
17.5°	5991.1	5388.2	3829.8	2186.3	1078.1	672.9	597.9	590.4	595.4	595.4	595.4
20°	6091.1	5390.7	3517.1	1683.5	760.5	585.4	562.8	560.3	565.3	565.3	567.8
22.5°	6213.7	5403.2	3204.4	1258.3	627.9	552.8	535.3	535.3	537.8	537.8	535.3
25°	6353.8	5428.2	2879.2	933.1	572.8	530.3	515.3	512.8	515.3	512.8	510.3
27.5°	6528.9	5463.3	2516.5	730.4	547.8	507.8	495.3	495.3	492.8	490.3	487.8
30°	6749.0	5503.3	2108.8	620.4	522.8	487.8	475.3	472.8	470.3	465.3	465.3
32.5°	7084.2	5590.8	1706.0	562.8	495.3	460.3	450.3	450.3	445.3	440.3	437.8
35°	7599.5	5763.4	1345.8	527.8	465.3	430.3	417.7	417.7	412.7	410.2	407.7
37.5°	8312.5	6026.1	1045.6	495.3	435.3	397.7	385.2	382.7	377.7	372.7	370.2
40°	9260.5	6351.3	823.0	465.3	405.2	365.2	355.2	350.2	340.2	332.7	332.7
42.5°	10451.3	6721.5	667.9	432.8	370.2	335.2	327.7	320.2	302.7	295.2	292.7
45°	11697.0	7054.2	565.3	395.2	335.2	305.2	300.2	287.7	265.2	257.7	257.7
47.5°	12595.0	7131.8	497.8	360.2	302.7	272.7	270.2	247.6	227.6	222.6	220.1
50°	13155.4	6979.2	442.8	325.2	272.7	242.6	235.1	207.6	195.1	190.1	187.6
52.5°	13533.1	6706.5	397.7	295.2	245.1	215.1	197.6	177.6	167.6	162.6	162.6
55°	13835.8	6321.3	352.7	267.7	222.6	192.6	167.6	152.6	142.6	137.6	137.6
57.5°	13920.8	5798.5	307.7	245.1	200.1	170.1	142.6	132.6	120.1	117.6	117.6
60°	13303.0	4855.4	272.7	217.6	180.1	147.6	125.1	112.6	100.1	97.6	95.1
62.5°	11674.5	3757.2	240.1	192.6	157.6	127.6	107.6	92.6	82.5	82.5	82.5
65°	8905.3	2519.0	210.1	167.6	137.6	107.6	92.6	75.0	70.0	70.0	72.5
67.5°	5330.7	1370.8	180.1	142.6	117.6	90.1	77.5	65.0	62.5	65.0	65.0
69°	3124.4	805.5	162.6	127.6	102.6	80.0	67.5	57.5	62.5	65.0	65.0
70°	1928.7	542.8	150.1	115.1	92.6	72.5	62.5	55.0	60.0	62.5	62.5
72.5°	537.8	280.2	120.1	90.1	75.0	60.0	50.0	50.0	57.5	60.0	60.0
75°	350.2	207.6	92.6	67.5	57.5	47.5	42.5	47.5	55.0	57.5	57.5
77.5°	290.2	170.1	75.0	55.0	47.5	45.0	40.0	42.5	50.0	52.5	52.5
80°	265.2	120.1	60.0	50.0	42.5	40.0	37.5	35.0	45.0	47.5	47.5
82.5°	252.7	95.1	52.5	45.0	40.0	35.0	32.5	35.0	40.0	42.5	45.0
85°	157.6	62.5	47.5	42.5	35.0	32.5	32.5	32.5	37.5	40.0	40.0
87.5°	57.5	50.0	42.5	35.0	30.0	30.0	30.0	30.0	32.5	37.5	37.5
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)