

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: P300655

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
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-AFL-7030-HSS
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND
Automotive Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42382.3 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

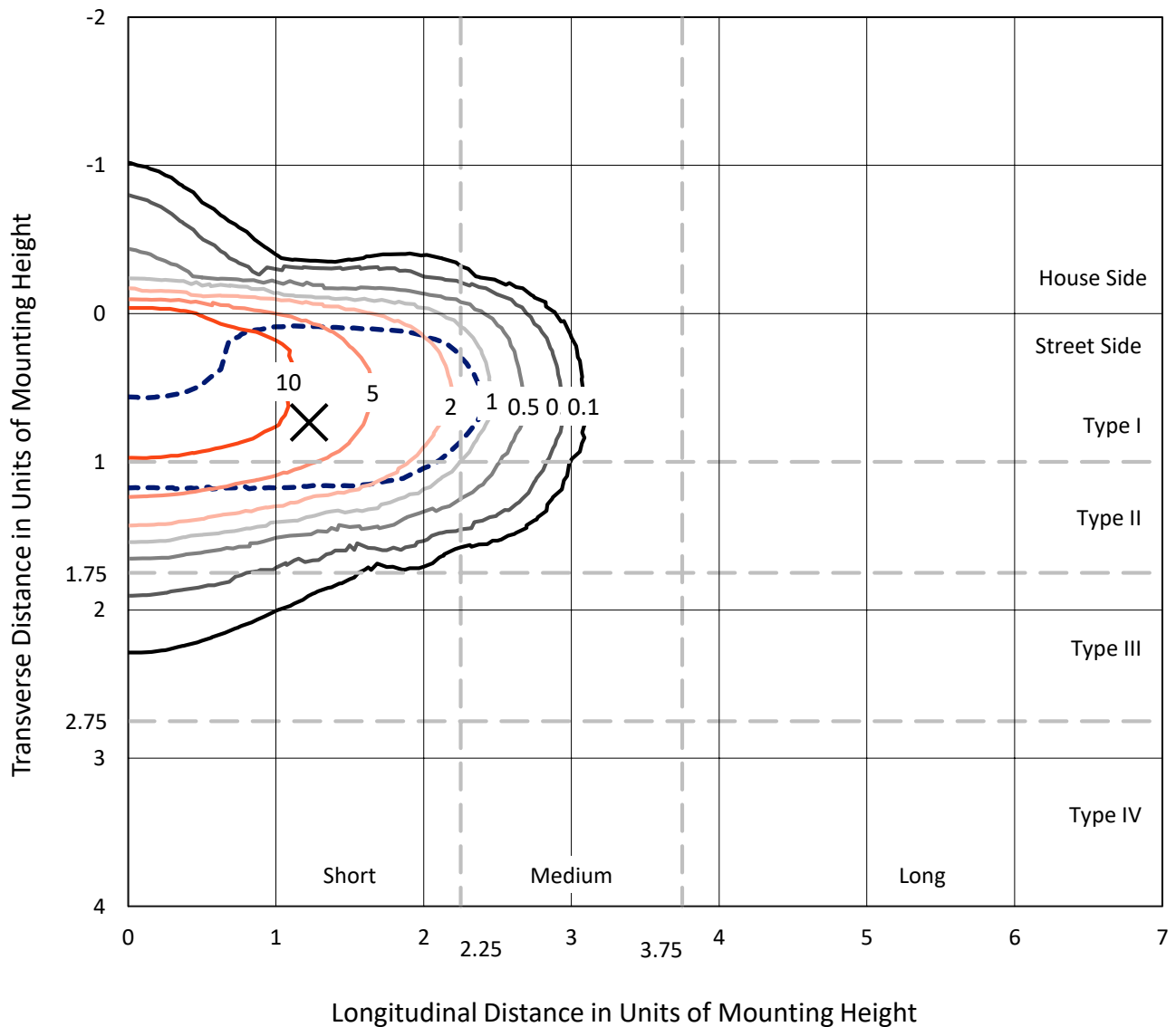
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

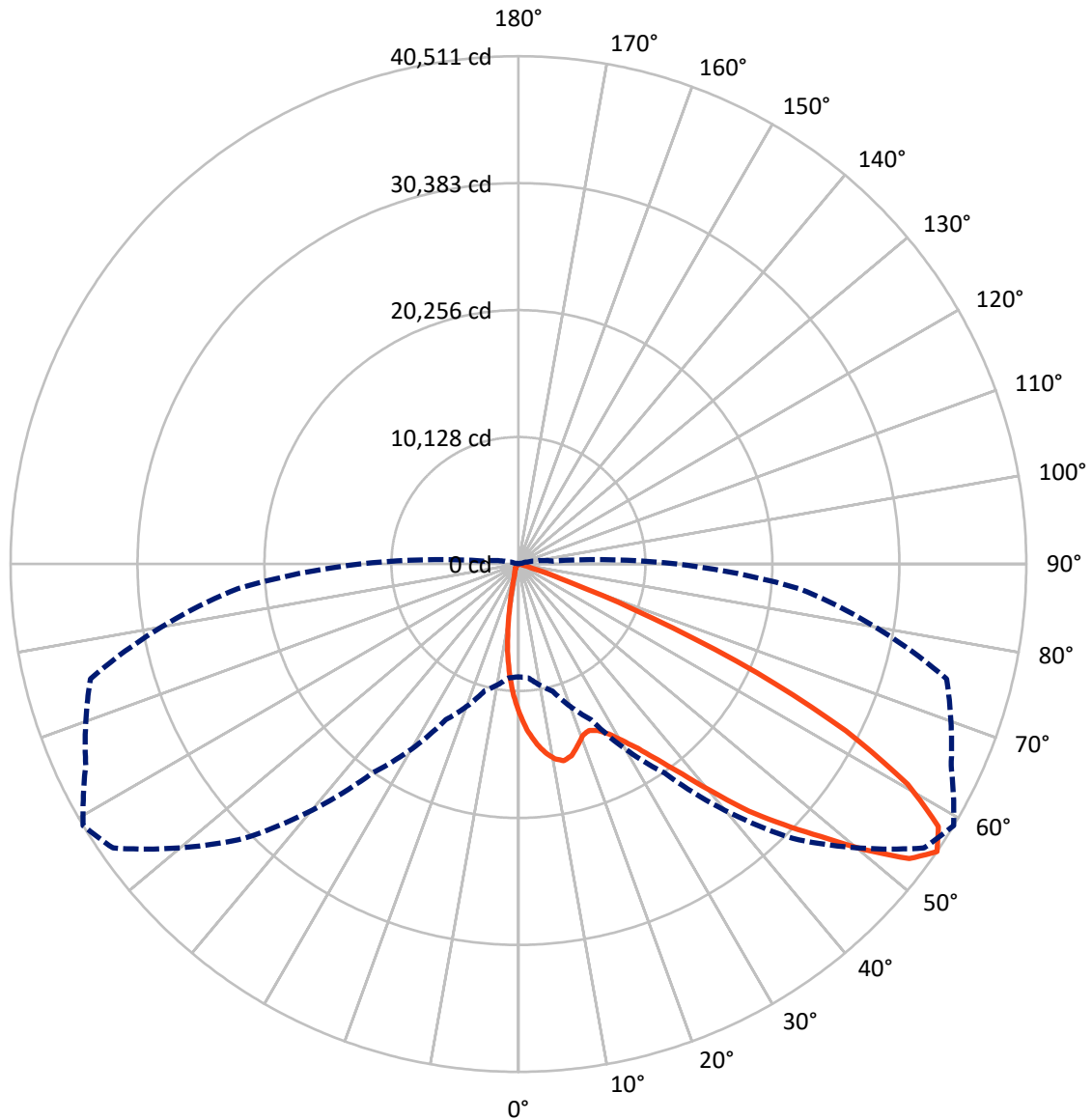
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2367.3	0.0	2367.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	40015.1	0.0	40015.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	42382.3	0.0	42382.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.3	2.4
10°-20°	2392.6	5.6
20°-30°	4071.3	9.6
30°-40°	7001.8	16.5
40°-50°	10810.0	25.5
50°-60°	10867.4	25.6
60°-70°	5572.9	13.1
70°-80°	603.9	1.4
80°-90°	63.1	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°	42382.3	100.0
0°-180°	42382.3	100.0

Coefficient of Utilization



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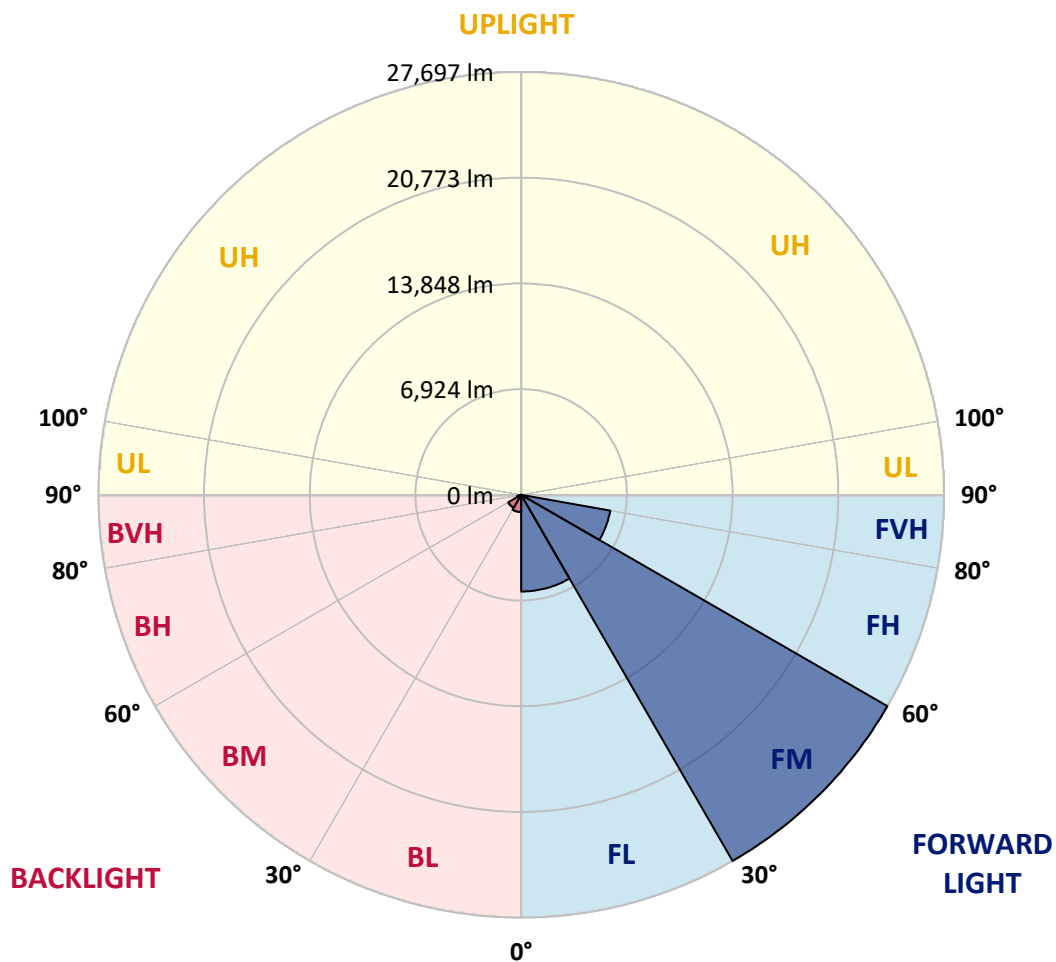
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6333.3	14.9			
FM (30°-60°)	27696.7	65.3			
FH (60°-80°)	5923.2	14.0			G3/7500
FVH (80°-90°)	61.8	0.1			G1/100
BL (0°-30°)	1129.9	2.7	B3/2500		
BM (30°-60°)	982.5	2.3	B1/1000		
BH (60°-80°)	253.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5
2.5°	14116.5	13966.4	13921.4	13891.4	13753.8	13581.2	13346.1	13236.1	13011.0	12648.3	12203.1
5°	15409.6	15382.1	15282.0	15227.0	15079.4	14834.3	14459.1	14279.1	13921.4	13311.1	12513.2
7.5°	14844.3	15016.9	15154.5	15384.6	15674.7	15664.7	15349.6	15162.0	14761.8	13956.4	12858.4
10°	12660.8	12800.9	13026.0	13548.7	14614.2	15554.6	15924.8	15789.8	15469.6	14549.2	13191.1
12.5°	12233.1	12218.1	12258.1	12410.7	12968.5	14309.1	15827.3	16099.9	16034.9	15091.9	13506.2
15°	12460.7	12443.2	12438.2	12490.7	12625.8	13191.1	15094.4	15877.3	16380.0	15594.7	13773.8
17.5°	13098.5	13023.5	12983.5	12940.9	12900.9	13041.0	14214.0	15254.5	16432.5	16034.9	13996.4
20°	14191.5	14066.5	13918.9	13678.8	13453.7	13383.6	13843.9	14614.2	16245.0	16370.0	14141.5
22.5°	15564.6	15404.6	15149.5	14711.8	14254.0	13988.9	14026.4	14411.6	15964.8	16735.2	14209.0
25°	17107.9	16902.8	16562.6	15954.8	15282.0	14811.8	14566.7	14701.8	15837.3	17162.9	14286.6
27.5°	18761.1	18533.5	18088.3	17260.4	16497.6	15862.3	15362.1	15344.5	16054.9	17723.1	14411.6
30°	20399.4	20364.4	19784.1	18908.7	17898.2	17125.4	16405.0	16312.5	16662.7	18498.5	14659.2
32.5°	22585.4	22322.8	21612.4	20712.0	19546.5	18618.6	17765.7	17550.6	17595.6	19401.4	15041.9
35°	25341.6	25054.0	24053.5	22810.5	21507.4	20411.9	19468.9	19176.3	19066.3	20879.6	15687.2
37.5°	27122.5	27117.5	26489.7	25224.1	23825.9	22617.9	21592.4	21249.8	21027.2	22665.4	16687.7
40°	27170.0	27287.5	27370.1	27357.6	26362.1	25249.1	24338.7	23916.0	23398.2	25051.5	17980.8
42.5°	25711.8	26014.4	26742.3	27977.9	28568.1	28125.4	27357.6	26942.4	26172.0	27605.2	19556.5
45°	23740.9	23951.0	25224.1	27500.1	29763.7	30976.7	30391.5	29648.6	28633.2	30268.9	20969.6
47.5°	22858.0	22895.5	23718.4	26217.0	29853.7	33312.8	33668.0	32459.9	30869.2	32414.9	22075.1
50°	20219.3	20286.8	21422.3	23993.5	28798.2	34415.8	36959.5	35813.9	33307.8	34068.1	22477.8
52.5°	15239.5	15334.5	16775.2	20339.3	25896.9	33945.6	39315.6	39037.9	35979.0	34876.0	22500.3
55°	8991.6	9116.7	10492.3	13691.3	20369.4	30954.2	39490.6	40511.1	38087.5	35353.7	22465.3
57.5°	4199.4	4287.0	5074.8	7053.2	12668.3	24463.7	36854.4	39500.6	39250.5	35606.4	22712.9
60°	2231.0	2256.0	2446.1	3053.9	5725.1	15512.1	31709.6	35668.9	38190.0	35956.5	23015.6
62.5°	1705.8	1713.3	1703.3	1775.8	2406.1	6885.7	23968.5	29323.5	33920.6	35693.9	22680.4
65°	1478.2	1490.7	1420.7	1403.1	1543.2	2456.1	14239.0	20902.1	26654.7	32149.8	20396.9
67.5°	1325.6	1330.6	1245.6	1173.0	1198.1	1328.1	5617.6	11442.8	17643.1	23565.8	14784.3
70°	1220.6	1215.6	1123.0	1008.0	975.4	907.9	1785.8	4194.4	8431.4	11950.5	6875.7
72.5°	1080.5	1083.0	1038.0	887.9	810.4	635.3	827.9	1223.1	2516.2	3256.5	1610.7
75°	957.9	945.4	890.4	795.4	667.8	417.7	410.2	545.3	775.4	770.4	347.7
77.5°	692.8	680.3	697.8	652.8	512.7	270.1	205.1	262.6	315.1	305.1	97.5
80°	507.7	500.2	450.2	542.7	452.7	185.1	127.6	140.1	162.6	137.6	30.0
82.5°	347.7	345.2	317.6	300.1	257.6	112.6	80.0	87.5	105.0	77.5	15.0
85°	55.0	62.5	230.1	182.6	152.6	50.0	55.0	60.0	70.0	42.5	5.0
87.5°	0.0	0.0	107.5	95.0	30.0	20.0	32.5	35.0	35.0	22.5	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5	11930.5
2.5°	11975.5	11725.4	11262.7	10785.0	10342.3	9814.5	9451.8	9179.2	8864.1	8779.0	8964.1
5°	12058.0	11585.3	10589.9	9506.9	8488.9	7360.9	6498.0	5815.2	5197.4	4987.3	5177.4
7.5°	12188.1	11485.3	9862.0	8078.7	6307.9	4547.1	3341.5	2548.7	2043.4	1893.4	1973.4
10°	12318.2	11340.2	9019.1	6387.9	3966.8	2213.5	1440.7	1150.5	1043.0	1020.5	1033.0
12.5°	12425.7	11145.1	7991.2	4542.1	2121.0	1185.5	942.9	895.4	880.4	880.4	885.4
15°	12490.7	10850.0	6773.1	2888.8	1220.6	895.4	822.9	807.9	807.9	810.4	815.4
17.5°	12483.2	10474.8	5440.0	1748.3	912.9	792.9	750.3	737.8	735.3	740.3	742.8
20°	12390.7	9984.6	4101.9	1153.0	795.4	722.8	680.3	657.8	655.3	660.3	665.3
22.5°	12215.6	9379.3	2933.8	887.9	717.8	655.3	602.8	582.8	582.8	587.8	592.8
25°	12003.0	8639.0	2005.9	752.8	647.8	582.8	532.7	515.2	520.2	532.7	535.2
27.5°	11737.9	7806.1	1363.1	645.3	562.8	510.2	472.7	460.2	472.7	490.2	495.2
30°	11510.3	6938.2	972.9	557.8	477.7	440.2	417.7	417.7	435.2	467.7	475.2
32.5°	11335.2	6097.8	750.3	492.7	415.2	382.7	370.2	382.7	410.2	442.7	450.2
35°	11312.7	5405.0	635.3	440.2	370.2	337.7	332.7	355.2	382.7	407.7	412.7
37.5°	11485.3	4764.7	572.8	397.7	330.2	300.1	295.1	322.6	350.2	380.2	387.7
40°	11812.9	4262.0	527.7	357.7	297.6	265.1	255.1	275.1	312.6	352.7	362.7
42.5°	12238.1	3846.8	477.7	317.6	265.1	220.1	207.6	230.1	270.1	312.6	325.1
45°	12643.3	3489.1	422.7	272.6	222.6	170.1	165.1	195.1	215.1	257.6	267.6
47.5°	12865.9	3174.0	375.2	222.6	172.6	137.6	137.6	145.1	165.1	215.1	225.1
50°	12790.9	2921.3	325.1	165.1	120.1	105.0	105.0	102.5	132.6	172.6	180.1
52.5°	12640.8	2776.3	280.1	127.6	82.5	75.0	67.5	75.0	92.5	110.1	112.6
55°	12618.3	2751.3	235.1	102.5	57.5	50.0	37.5	37.5	37.5	35.0	30.0
57.5°	12793.4	2791.3	197.6	82.5	42.5	32.5	20.0	0.0	0.0	0.0	0.0
60°	12973.5	2833.8	170.1	57.5	30.0	17.5	2.5	0.0	0.0	0.0	0.0
62.5°	12673.3	2738.8	142.6	35.0	22.5	7.5	0.0	0.0	0.0	0.0	0.0
65°	11132.6	2331.1	112.6	25.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7918.6	1560.7	75.0	15.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	3614.2	652.8	47.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	772.9	202.6	32.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	157.6	147.6	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	50.0	232.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.0	167.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)