

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: P321258

Luminaire Tested: **GAN-SA4D-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23009 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

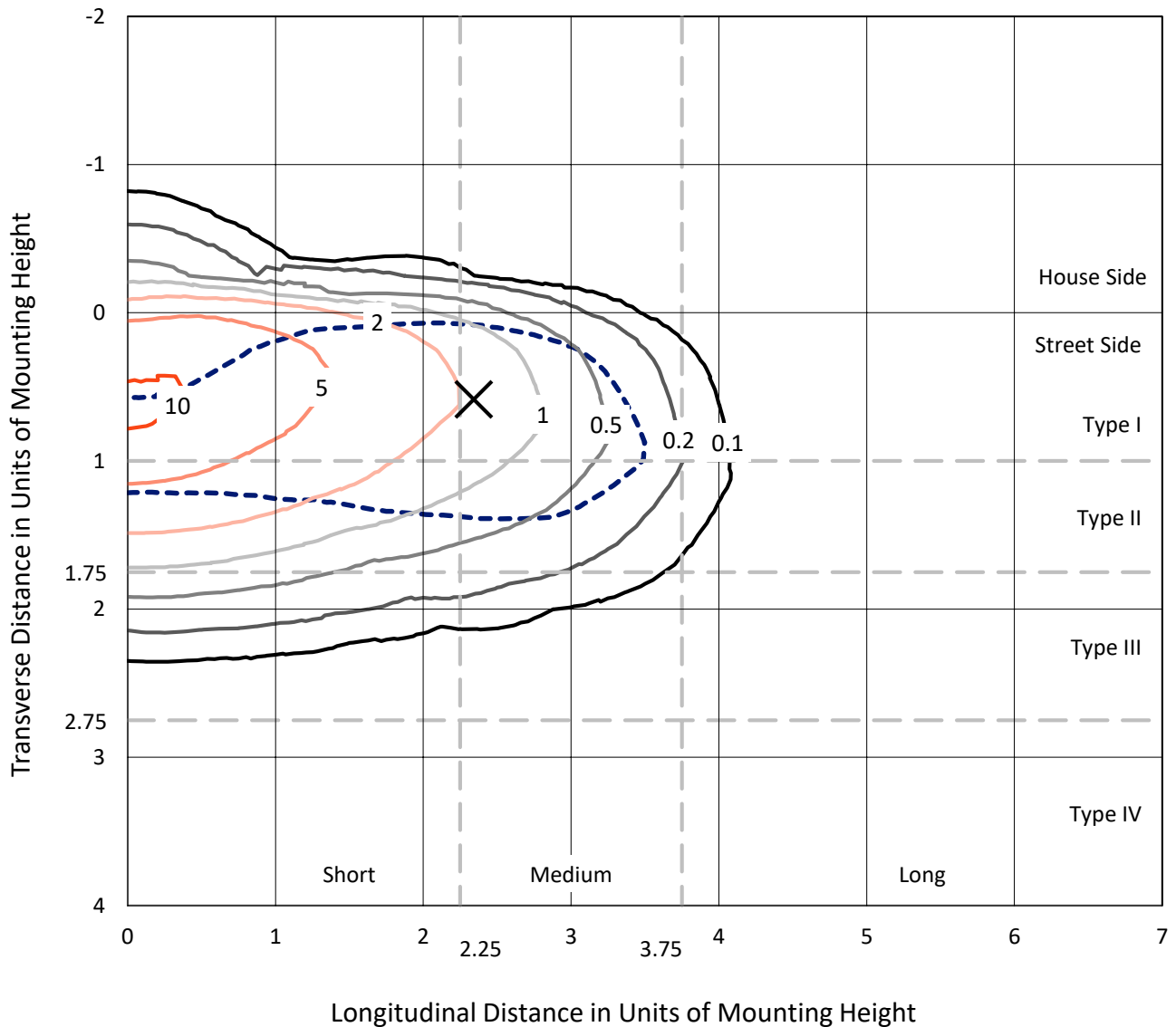
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

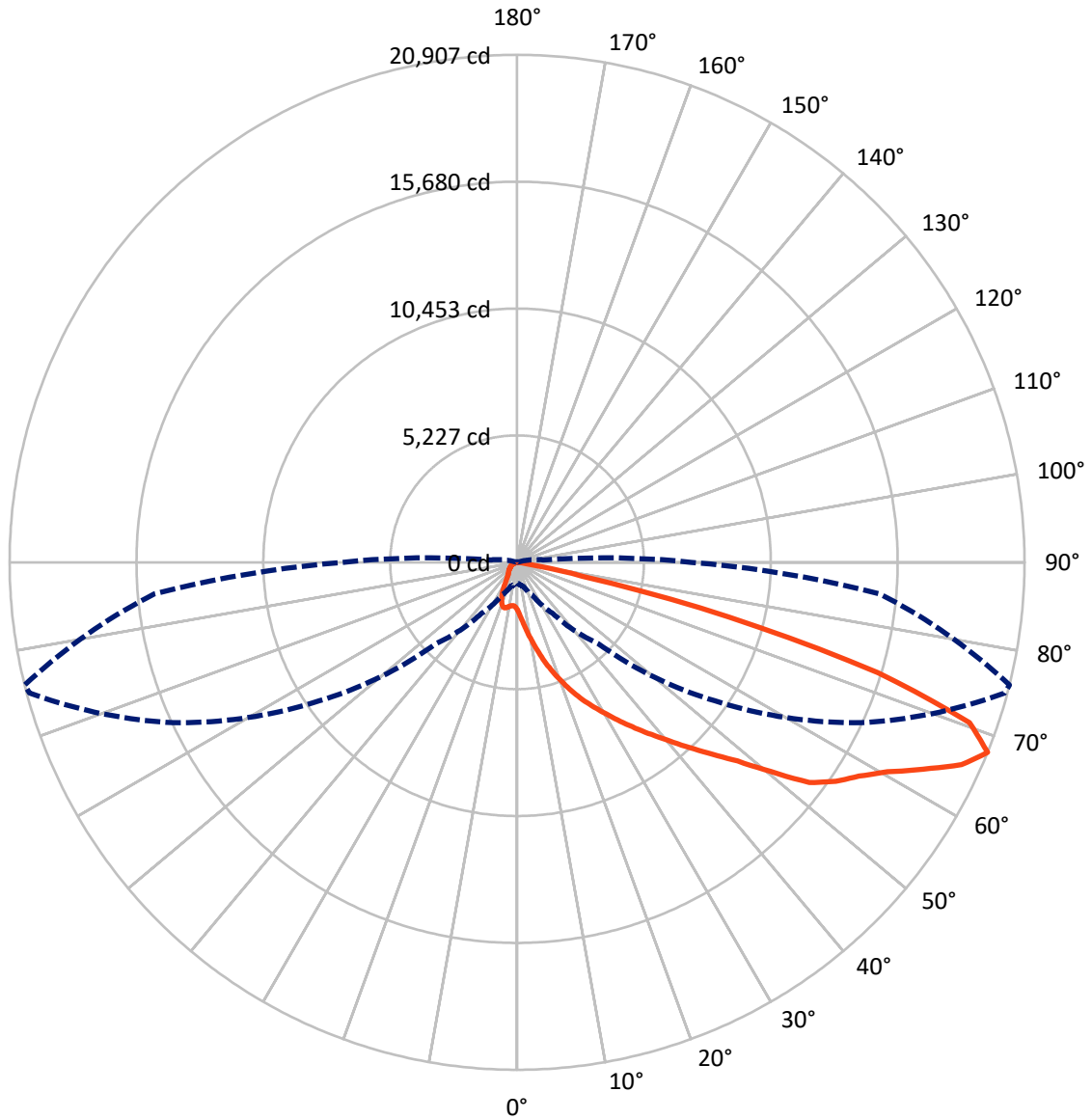
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1142.6	0.0	1142.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21866.4	0.0	21866.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	23009.0	0.0	23009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.1
10°-20°	962.1	4.2
20°-30°	1957.6	8.5
30°-40°	3397.8	14.8
40°-50°	4800.6	20.9
50°-60°	5444.1	23.7
60°-70°	4515.4	19.6
70°-80°	1635.6	7.1
80°-90°	53.0	0.2
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°	23009.0	100.0
0°-180°	23009.0	100.0

Coefficient of Utilization

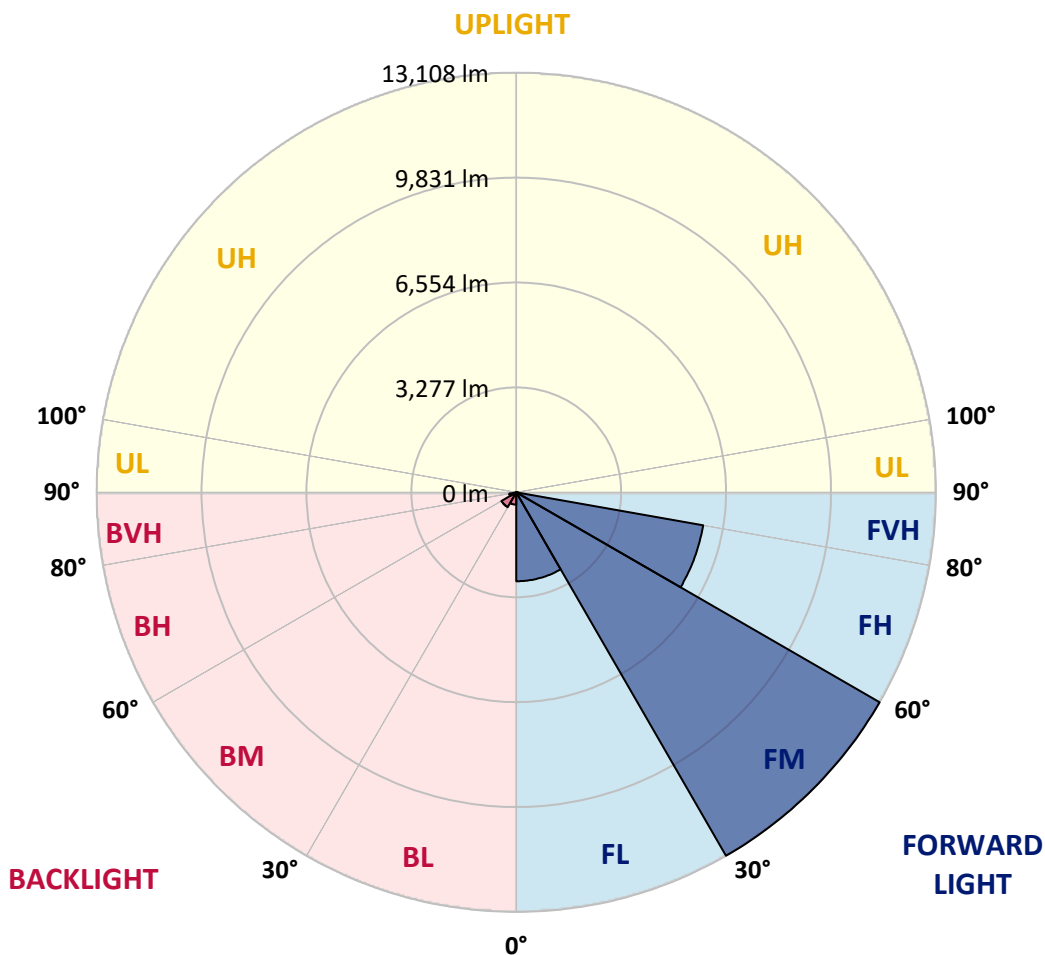


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2777.1	12.1			
FM (30°-60°)	13107.8	57.0			
FH (60°-80°)	5930.2	25.8			G3/7500
FVH (80°-90°)	51.4	0.2			G1/100
BL (0°-30°)	385.3	1.7	B1/500		
BM (30°-60°)	534.8	2.3	B1/1000		
BH (60°-80°)	220.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8
2.5°	2913.6	2848.1	2863.2	2820.9	2744.3	2587.0	2452.9	2325.9	2177.7	2172.6	2050.6
5°	3928.9	3873.4	3866.4	3780.7	3641.5	3374.4	3114.3	2817.9	2487.2	2463.0	2203.9
7.5°	4850.3	4806.0	4789.8	4688.0	4428.9	4168.8	3830.1	3394.5	2877.3	2833.0	2410.5
10°	5558.1	5536.9	5540.9	5468.3	5246.6	5004.6	4560.0	4004.5	3319.9	3251.4	2658.6
12.5°	6094.4	6099.5	6135.8	6091.4	5967.4	5787.9	5313.1	4654.8	3809.9	3716.1	2941.9
15°	6488.6	6513.8	6580.4	6635.8	6626.7	6471.5	6036.0	5315.1	4330.1	4226.3	3257.4
17.5°	6743.7	6771.9	6868.7	6991.7	7104.6	7068.3	6733.6	5952.3	4856.4	4736.4	3595.2
20°	6967.5	7000.8	7104.6	7266.9	7477.6	7523.0	7303.2	6570.3	5381.6	5235.5	3944.0
22.5°	7452.4	7451.4	7514.9	7609.7	7810.3	7927.3	7788.2	7143.9	5900.9	5748.6	4299.9
25°	8329.6	8296.3	8274.1	8199.5	8243.9	8316.4	8238.8	7680.3	6423.1	6268.8	4660.8
27.5°	9372.0	9392.2	9212.7	9012.1	8856.8	8782.2	8655.2	8177.3	6925.2	6755.8	5013.7
30°	10471.9	10478.0	10266.3	10010.2	9668.4	9385.1	9165.3	8652.2	7441.4	7256.9	5356.4
32.5°	11464.0	11424.7	11215.0	10866.1	10434.6	10116.0	9659.3	9182.5	7987.8	7809.3	5737.5
35°	12250.4	12204.0	11948.9	11631.3	11183.7	10863.1	10313.6	9711.8	8562.4	8388.0	6119.6
37.5°	12825.0	12770.6	12508.4	12181.8	11795.7	11609.2	11072.8	10287.4	9189.5	9002.0	6521.9
40°	13024.6	12977.2	12812.9	12574.0	12263.5	12221.1	11878.3	10949.8	9872.1	9672.4	6977.6
42.5°	12905.7	12859.3	12800.8	12720.2	12591.1	12631.4	12638.5	11704.9	10630.2	10433.6	7480.7
45°	12433.8	12392.5	12453.0	12571.0	12731.3	12930.9	13332.1	12516.5	11477.1	11267.4	8062.4
47.5°	11739.2	11709.0	11876.3	12170.7	12639.5	13190.0	13966.3	13369.4	12427.8	12233.2	8788.3
50°	10751.2	10746.2	11080.9	11618.2	12339.1	13315.0	14621.6	14339.3	13748.5	13543.8	9797.5
52.5°	9212.7	9222.8	9881.1	10741.1	11811.8	13230.3	15043.0	15585.4	15285.0	15072.2	10671.5
55°	7747.8	7808.3	8275.1	9515.2	11003.2	12915.7	15188.2	16167.1	16132.8	15931.2	11157.5
57.5°	6313.2	6423.1	6872.7	8031.1	9822.7	12190.9	15108.5	16419.2	16764.0	16609.7	11798.7
60°	4758.6	4809.0	5327.2	6410.0	8307.4	10868.1	14530.8	16556.3	17627.0	17520.1	12729.2
62.5°	3027.6	3153.6	3613.3	4657.8	6468.5	9031.2	13556.9	16554.3	18706.7	18765.2	13930.0
65°	1594.9	1742.1	1986.1	2886.4	4445.0	6979.6	12092.1	16399.0	20031.5	20113.1	14868.6
67.5°	860.0	902.3	1031.4	1498.2	2577.9	4728.3	9939.6	15632.8	20798.7	20906.6	14999.6
70°	629.1	652.3	700.7	828.7	1297.5	2746.3	7252.8	13895.7	19809.7	19769.3	13327.1
72.5°	482.9	519.2	555.5	606.9	746.1	1465.9	4515.6	10881.2	15806.2	15540.0	9961.8
75°	381.1	387.1	438.6	484.9	559.5	834.8	2005.3	6337.4	9647.2	9017.1	5165.9
77.5°	304.5	308.5	338.7	379.1	449.6	548.4	621.0	2493.2	3080.0	2748.3	1121.1
80°	180.5	190.5	252.0	292.4	373.0	345.8	226.8	541.4	480.9	435.5	188.5
82.5°	100.8	108.9	142.2	230.9	260.1	165.3	112.9	146.2	112.9	109.9	53.4
85°	0.0	5.0	91.7	143.2	105.9	36.3	47.4	48.4	33.3	31.3	21.2
87.5°	0.0	0.0	28.2	27.2	4.0	6.0	11.1	16.1	13.1	13.1	11.1
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°	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8	1951.8
2.5°	1990.1	1935.7	1832.9	1732.0	1647.4	1577.8	1515.3	1490.1	1469.9	1466.9	1450.8
5°	2078.9	1969.0	1772.4	1611.1	1503.2	1426.6	1361.0	1320.7	1289.5	1277.4	1266.3
7.5°	2212.9	2046.6	1764.3	1578.8	1449.8	1320.7	1199.7	1068.7	987.0	955.8	937.6
10°	2376.3	2149.4	1794.6	1569.7	1343.9	1071.7	871.1	704.7	637.2	615.0	608.9
12.5°	2566.8	2277.5	1847.0	1513.3	1118.1	761.2	600.9	544.4	529.3	522.2	522.2
15°	2785.6	2417.6	1884.3	1349.9	826.7	575.7	520.2	494.0	477.9	468.8	469.8
17.5°	3009.4	2554.7	1866.1	1113.0	609.9	512.2	470.8	442.6	420.4	411.3	409.3
20°	3235.2	2681.7	1765.3	828.7	516.2	464.8	418.4	387.1	365.0	355.9	353.9
22.5°	3469.1	2789.6	1587.9	607.9	463.8	412.3	367.0	335.7	314.6	306.5	302.5
25°	3697.0	2877.3	1339.9	492.0	414.4	362.9	319.6	290.4	271.2	263.1	262.1
27.5°	3909.7	2932.8	1052.5	434.5	371.0	318.6	279.3	253.1	236.9	230.9	229.9
30°	4101.3	2937.8	778.3	392.2	332.7	280.3	244.0	220.8	206.7	200.6	198.6
32.5°	4294.8	2895.5	566.6	353.9	297.4	247.0	211.7	193.6	183.5	178.4	178.4
35°	4477.3	2797.7	441.6	320.6	263.1	214.7	186.5	173.4	167.4	162.3	162.3
37.5°	4655.8	2657.6	375.0	291.4	230.9	187.5	164.3	156.3	151.2	146.2	146.2
40°	4837.2	2481.1	340.8	264.1	204.7	166.3	146.2	139.1	134.1	130.1	129.0
42.5°	5060.0	2277.5	318.6	238.9	181.5	147.2	129.0	121.0	116.9	112.9	110.9
45°	5318.1	2102.0	300.4	213.7	162.3	131.1	111.9	103.8	97.8	92.8	91.7
47.5°	5690.1	1975.0	276.2	186.5	144.2	113.9	96.8	87.7	78.6	73.6	72.6
50°	6165.0	1870.2	245.0	162.3	126.0	96.8	80.7	69.6	61.5	56.5	56.5
52.5°	6400.9	1733.1	216.8	141.1	105.9	81.7	65.5	52.4	48.4	43.4	43.4
55°	6495.7	1628.2	188.5	120.0	87.7	67.5	51.4	40.3	37.3	34.3	33.3
57.5°	6761.8	1598.0	164.3	101.8	72.6	53.4	39.3	30.2	28.2	24.2	24.2
60°	7190.3	1613.1	142.2	86.7	58.5	41.3	29.2	23.2	21.2	17.1	17.1
62.5°	7653.1	1593.9	120.0	74.6	45.4	30.2	20.2	17.1	17.1	10.1	9.1
65°	7741.8	1419.5	102.8	61.5	35.3	22.2	13.1	11.1	15.1	2.0	0.0
67.5°	7185.3	1100.9	88.7	47.4	26.2	17.1	10.1	5.0	13.1	0.0	0.0
70°	5745.6	699.7	71.6	34.3	20.2	14.1	8.1	2.0	10.1	0.0	0.0
72.5°	4063.0	406.3	56.5	24.2	17.1	11.1	6.0	0.0	6.0	0.0	0.0
75°	2054.7	216.8	35.3	18.1	13.1	8.1	4.0	0.0	1.0	0.0	0.0
77.5°	444.6	100.8	22.2	13.1	9.1	5.0	2.0	0.0	0.0	0.0	0.0
80°	96.8	44.4	14.1	8.1	5.0	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.3	23.2	7.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.2	12.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	4.0	1.0	1.0	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)