

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: McGRAW-EDISON

Report Number: P530611

Luminaire Tested: **GALN-SA5D-750-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-750-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23561 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

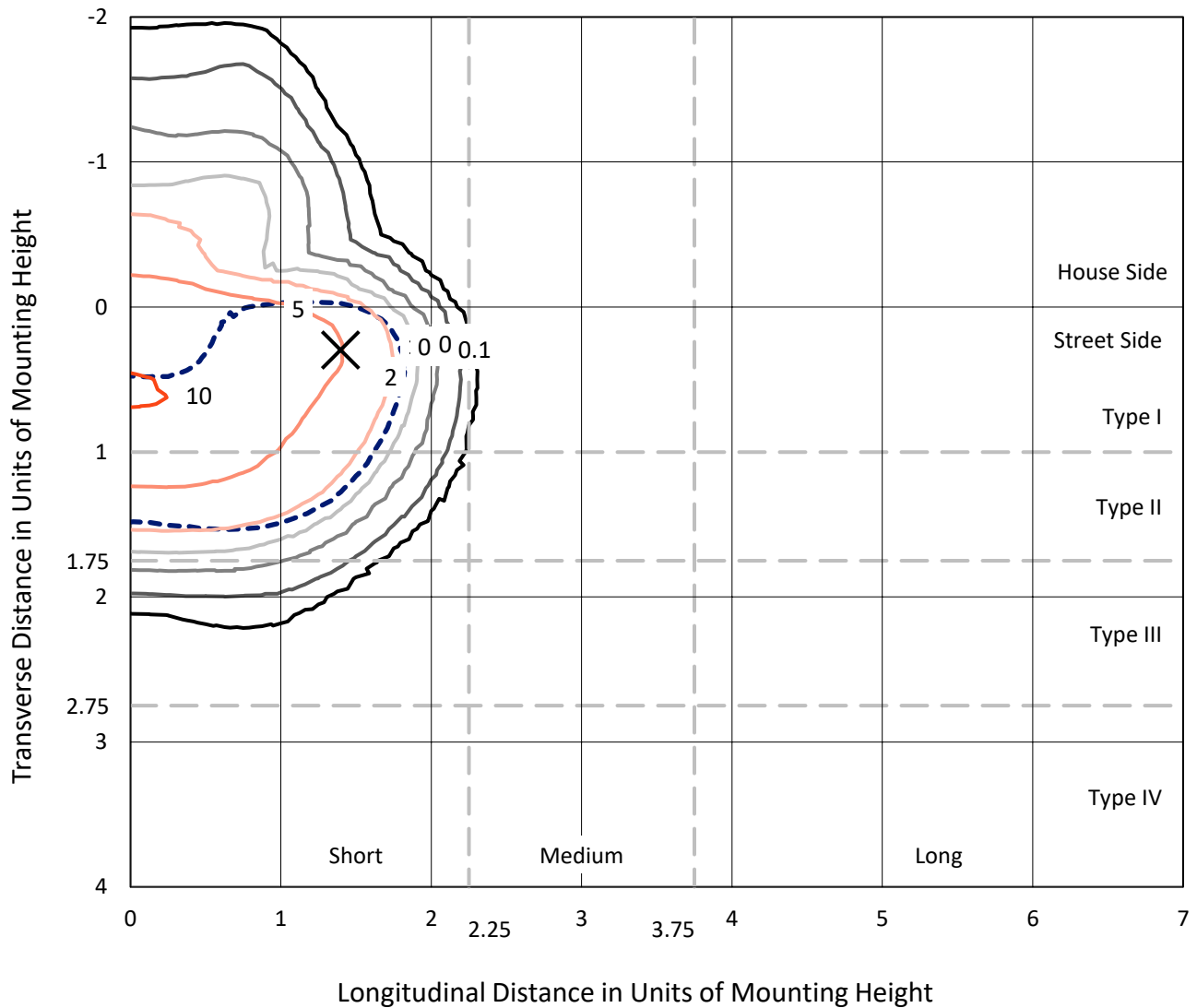
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

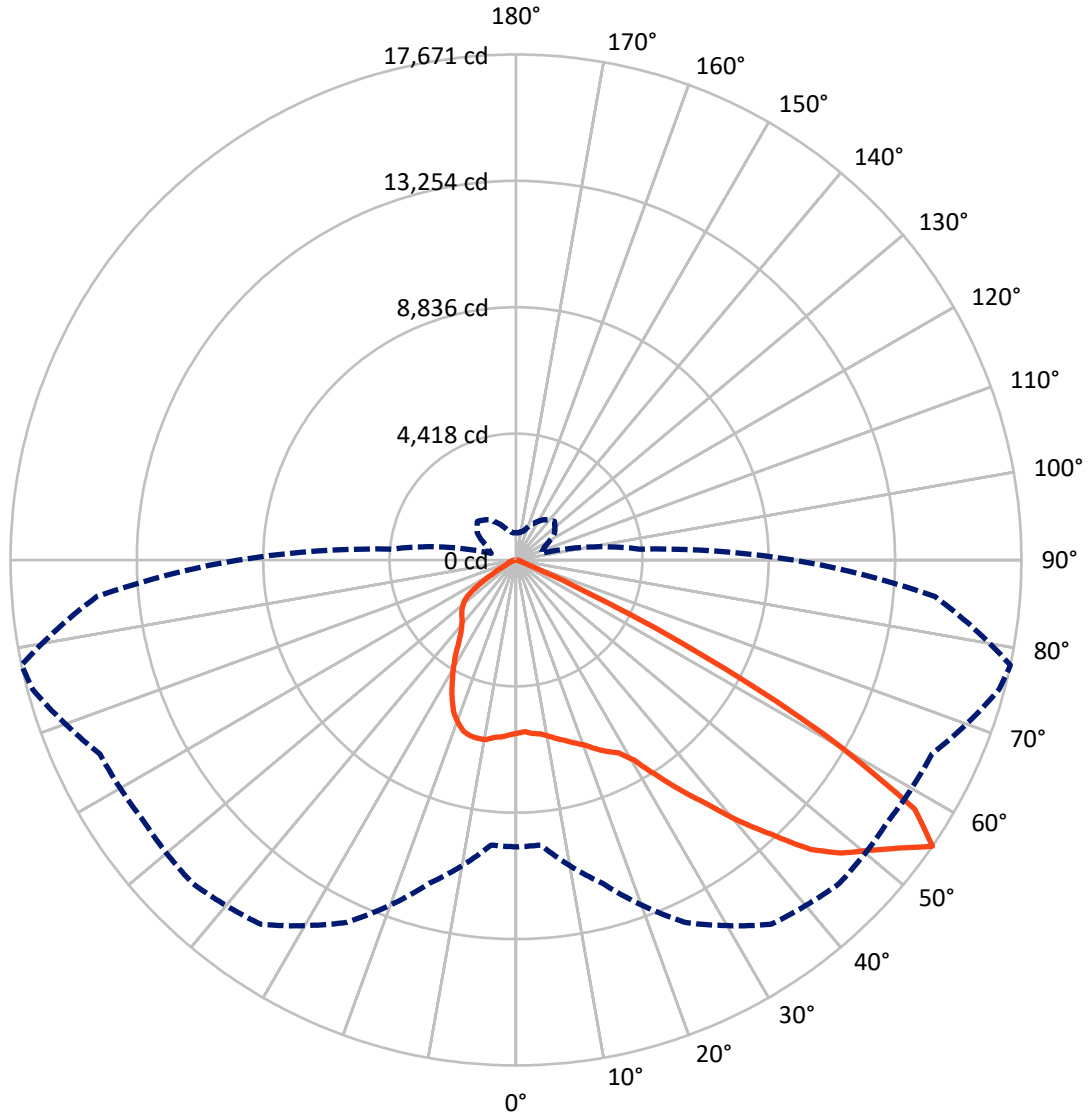
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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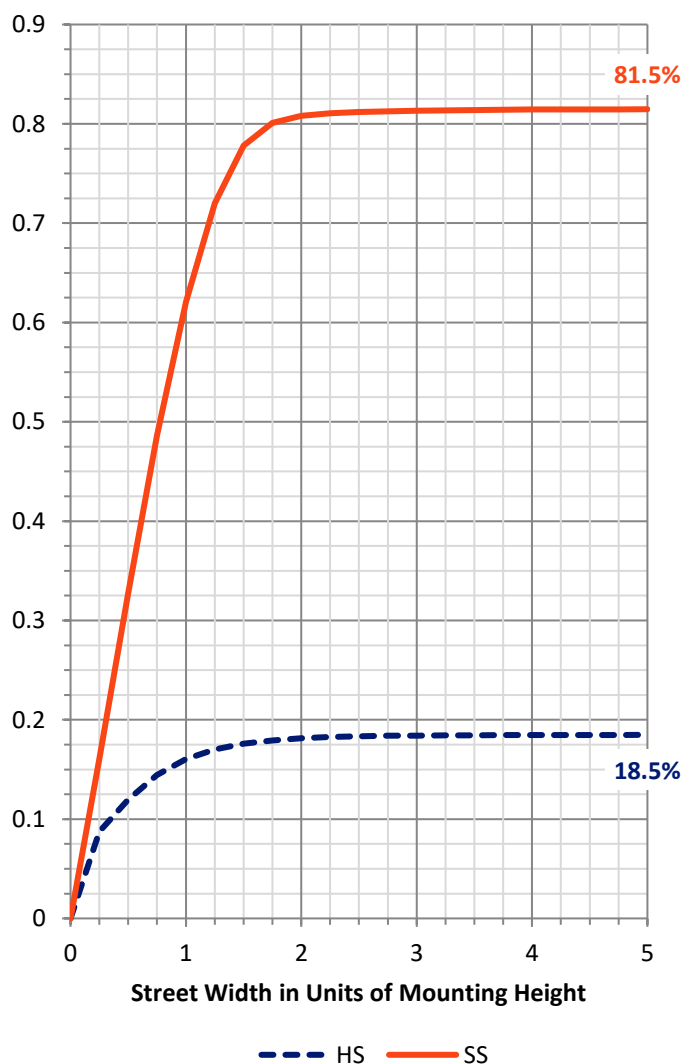
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4376.2	0.0	4376.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19184.8	0.0	19184.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	23561.0	0.0	23561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.1	2.3
10°-20°	1429.5	6.1
20°-30°	2505.6	10.6
30°-40°	4131.5	17.5
40°-50°	6011.8	25.5
50°-60°	6812.0	28.9
60°-70°	1947.7	8.3
70°-80°	151.2	0.6
80°-90°	31.5	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°	23561.0	100.0
0°-180°	23561.0	100.0

Coefficient of Utilization



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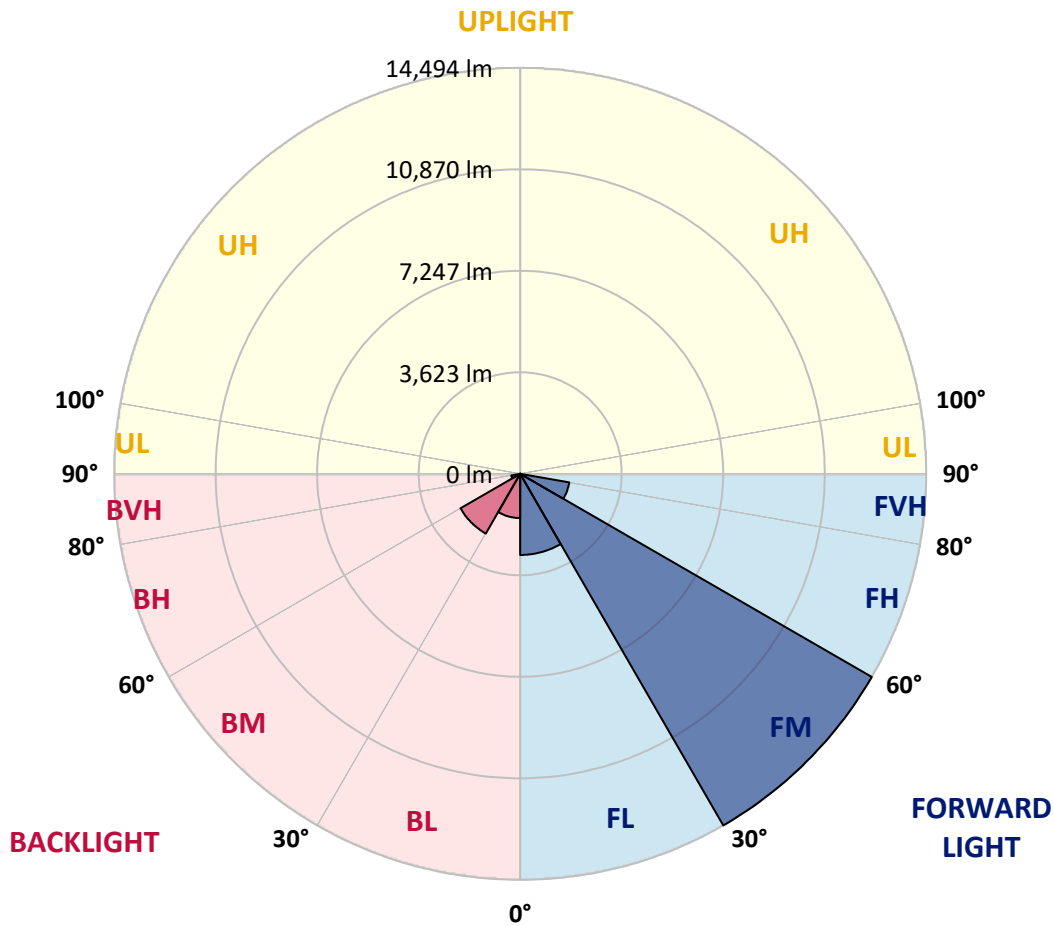
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2896.3	12.3			
FM (30°-60°)	14493.7	61.5			
FH (60°-80°)	1779.5	7.6			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	1578.9	6.7	B3/2500		
BM (30°-60°)	2461.7	10.4	B2/2500		
BH (60°-80°)	319.4	1.4	B1/500		G1/500
BVH (80°-90°)	16.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5
2.5°	5695.3	5750.0	5758.5	5825.9	5821.6	5935.4	5969.1	5973.3	6049.1	6011.2	6108.1
5°	5535.2	5505.7	5493.1	5611.0	5644.7	5745.8	5830.1	5880.6	6036.5	6091.2	6192.3
7.5°	5392.0	5392.0	5400.4	5505.7	5493.1	5623.7	5712.1	5868.0	6095.5	6141.8	6264.0
10°	5253.0	5202.4	5265.6	5375.1	5467.8	5526.8	5712.1	5859.6	6124.9	6259.7	6428.2
12.5°	5181.4	5206.6	5215.1	5295.1	5396.2	5573.1	5674.2	5918.5	6335.6	6415.6	6596.7
15°	5632.1	5581.5	5459.4	5387.8	5472.0	5556.3	5809.0	6057.5	6445.1	6558.8	6761.0
17.5°	6154.4	6112.3	6011.2	5817.4	5627.9	5783.7	5981.7	6209.2	6563.0	6731.5	7030.6
20°	6836.9	6769.5	6668.4	6289.2	6124.9	5956.4	6167.1	6436.7	6756.8	6908.5	7216.0
22.5°	7649.9	7649.9	7422.4	6963.2	6622.0	6461.9	6550.4	6706.3	6971.7	7178.1	7481.4
25°	8496.6	8471.3	8264.9	7788.9	7211.8	7022.2	7123.3	7232.8	7304.4	7418.2	7620.4
27.5°	9465.4	9318.0	9056.8	8530.3	8020.6	7654.1	7763.6	7666.7	7578.3	7637.2	7927.9
30°	10122.6	10215.3	9882.5	9377.0	8896.8	8488.1	8509.2	8425.0	8020.6	8104.8	8277.5
32.5°	10805.0	10864.0	10678.6	10400.6	9920.4	9444.4	9271.7	9200.1	8896.8	8934.7	8766.2
35°	11373.7	11487.4	11323.1	11201.0	11062.0	10678.6	10202.6	10434.3	9945.7	9853.0	9414.9
37.5°	11896.0	11862.3	12056.1	11929.7	11900.3	11630.7	11108.3	11154.6	10826.1	10805.0	10299.5
40°	12363.6	12372.1	12637.4	12696.4	12578.5	12098.2	11340.0	11706.5	11971.9	11997.1	11348.4
42.5°	12751.2	12864.9	13092.4	13568.4	13391.5	12591.1	11580.1	11980.3	12966.0	13121.9	12342.6
45°	13088.2	13319.9	13602.1	14027.6	13926.5	13290.4	12178.3	12544.8	14027.6	14436.2	13277.7
47.5°	13109.2	13412.5	13720.0	14351.9	14478.3	13665.3	12797.5	13437.8	14870.1	15312.4	13960.2
50°	13025.0	13185.1	13800.1	14486.7	14773.2	14276.1	13665.3	14187.6	15687.3	15965.3	14305.6
52.5°	12026.6	12148.8	13383.1	14613.1	15303.9	14966.9	14815.3	15232.3	16521.3	16727.8	14629.9
55°	10025.7	10004.6	11702.3	13977.0	15548.3	15990.6	15897.9	16045.3	17486.0	17671.4	14710.0
57.5°	6857.9	7241.3	8707.2	11639.1	14052.8	15750.5	15847.4	15603.0	16361.3	16432.9	12822.8
60°	3698.6	3858.6	5038.1	7767.8	10699.7	12835.4	13088.2	12645.9	12586.9	12384.7	9153.7
62.5°	1470.2	1550.2	2220.0	3846.0	5830.1	7801.5	8344.9	8163.8	7776.2	7245.5	4739.0
65°	699.3	749.8	1103.7	1798.7	2586.5	3252.0	3795.4	3963.9	2923.5	2632.8	1562.8
67.5°	476.0	513.9	804.6	1027.8	922.5	964.7	1255.3	1166.9	686.6	585.5	433.9
70°	362.3	387.5	644.5	699.3	412.8	290.7	324.4	303.3	282.2	286.4	282.2
72.5°	257.0	278.0	471.8	412.8	181.1	134.8	172.7	206.4	206.4	206.4	202.2
75°	155.9	176.9	273.8	160.1	71.6	71.6	109.5	139.0	147.4	151.6	143.2
77.5°	80.0	101.1	92.7	46.3	46.3	54.8	80.0	96.9	105.3	105.3	101.1
80°	16.8	16.8	16.8	25.3	46.3	59.0	80.0	88.5	101.1	101.1	92.7
82.5°	0.0	4.2	12.6	25.3	42.1	54.8	75.8	88.5	101.1	105.3	96.9
85°	0.0	4.2	8.4	16.8	29.5	33.7	29.5	25.3	25.3	25.3	25.3
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5	6057.5
2.5°	6116.5	6129.2	6108.1	6103.9	6087.0	6137.6	6015.4	5985.9	6061.8	5990.1	6007.0
5°	6196.6	6226.0	6188.1	6124.9	6032.3	5889.0	5766.9	5606.8	5531.0	5476.2	5467.8
7.5°	6255.5	6276.6	6238.7	6036.5	5758.5	5396.2	5126.6	4928.6	4772.7	4726.4	4650.6
10°	6495.6	6499.9	6310.3	5863.8	5320.4	4844.4	4431.5	4128.2	3972.4	3875.5	3833.4
12.5°	6655.7	6647.3	6264.0	5522.6	4798.0	4166.1	3694.3	3327.9	3184.6	3138.3	3108.8
15°	6857.9	6811.6	6154.4	5172.9	4124.0	3441.6	3016.1	2763.4	2750.7	2721.3	2750.7
17.5°	7018.0	6887.4	5994.4	4536.8	3479.5	2835.0	2557.0	2573.8	2607.5	2637.0	2641.2
20°	7279.2	7009.6	5627.9	3980.8	2881.3	2430.6	2426.4	2502.2	2586.5	2620.2	2653.9
22.5°	7477.2	7060.1	5236.1	3386.8	2392.7	2266.3	2337.9	2451.7	2514.9	2548.6	2599.1
25°	7548.8	6921.1	4713.8	2792.9	2156.8	2190.5	2300.0	2375.8	2455.9	2493.8	2472.7
27.5°	7620.4	6849.5	4090.3	2300.0	2030.4	2139.9	2232.6	2308.4	2333.7	2384.3	2418.0
30°	7793.1	6601.0	3530.1	1988.3	1967.2	2106.2	2173.6	2198.9	2266.3	2295.8	2295.8
32.5°	7932.1	6504.1	2936.1	1840.9	1958.8	2123.1	2131.5	2131.5	2139.9	2118.9	2110.5
35°	8218.5	6171.3	2405.3	1752.4	1954.6	2127.3	2148.4	2076.8	1883.0	1807.2	1786.1
37.5°	8572.4	5956.4	2013.6	1731.3	1984.1	2177.9	2211.6	1942.0	1689.2	1567.0	1546.0
40°	9002.1	5804.8	1756.6	1722.9	2051.5	2295.8	2194.7	1836.6	1508.1	1331.1	1322.7
42.5°	9503.4	5665.8	1583.9	1718.7	2135.7	2418.0	2177.9	1748.2	1322.7	1204.8	1221.6
45°	9903.5	5590.0	1465.9	1689.2	2165.2	2489.6	2190.5	1592.3	1246.9	1171.1	1179.5
47.5°	10215.3	5429.9	1369.1	1638.7	2161.0	2514.9	2076.8	1529.1	1209.0	1230.0	1251.1
50°	10223.7	5215.1	1246.9	1529.1	2097.8	2468.5	1946.2	1470.2	1200.6	1289.0	1331.1
52.5°	10110.0	4911.8	1116.3	1373.3	1950.4	2308.4	1828.2	1444.9	1162.6	1154.2	1204.8
55°	9705.6	4343.1	897.3	1112.1	1647.1	1904.0	1722.9	1398.5	1048.9	952.0	960.4
57.5°	7843.6	3113.0	661.4	796.2	1166.9	1394.3	1554.4	1377.5	943.6	808.8	813.0
60°	4857.0	1765.0	484.4	543.4	720.3	846.7	1259.5	1280.6	842.5	682.4	674.0
62.5°	2493.8	872.0	374.9	383.3	442.3	497.1	863.6	1074.2	762.5	648.7	648.7
65°	834.1	429.7	328.6	294.9	294.9	307.5	522.3	745.6	644.5	543.4	543.4
67.5°	358.1	320.1	286.4	257.0	235.9	223.3	294.9	433.9	480.2	412.8	396.0
70°	278.0	269.6	248.5	214.8	185.3	168.5	172.7	223.3	273.8	265.4	257.0
72.5°	206.4	206.4	198.0	168.5	143.2	122.2	113.7	117.9	130.6	134.8	139.0
75°	143.2	147.4	147.4	130.6	105.3	88.5	75.8	63.2	50.5	42.1	37.9
77.5°	96.9	101.1	109.5	96.9	80.0	59.0	46.3	33.7	21.1	8.4	8.4
80°	84.2	96.9	105.3	96.9	84.2	63.2	46.3	25.3	12.6	0.0	0.0
82.5°	88.5	96.9	109.5	92.7	80.0	59.0	46.3	29.5	12.6	4.2	0.0
85°	21.1	21.1	25.3	29.5	37.9	42.1	33.7	21.1	12.6	4.2	0.0
87.5°	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)