

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: P533249

Luminaire Tested: **GALN-SA8C-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26332 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

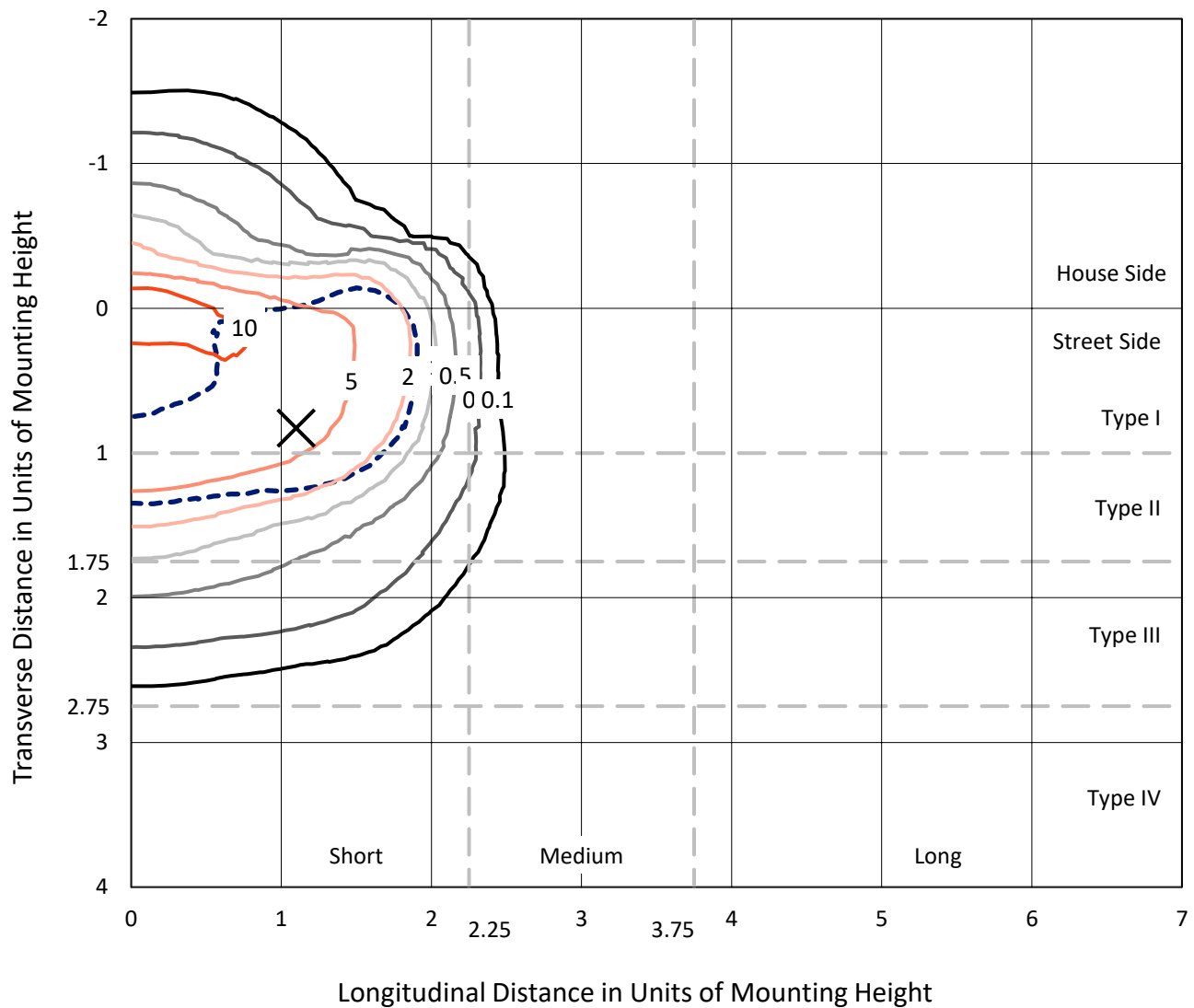
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

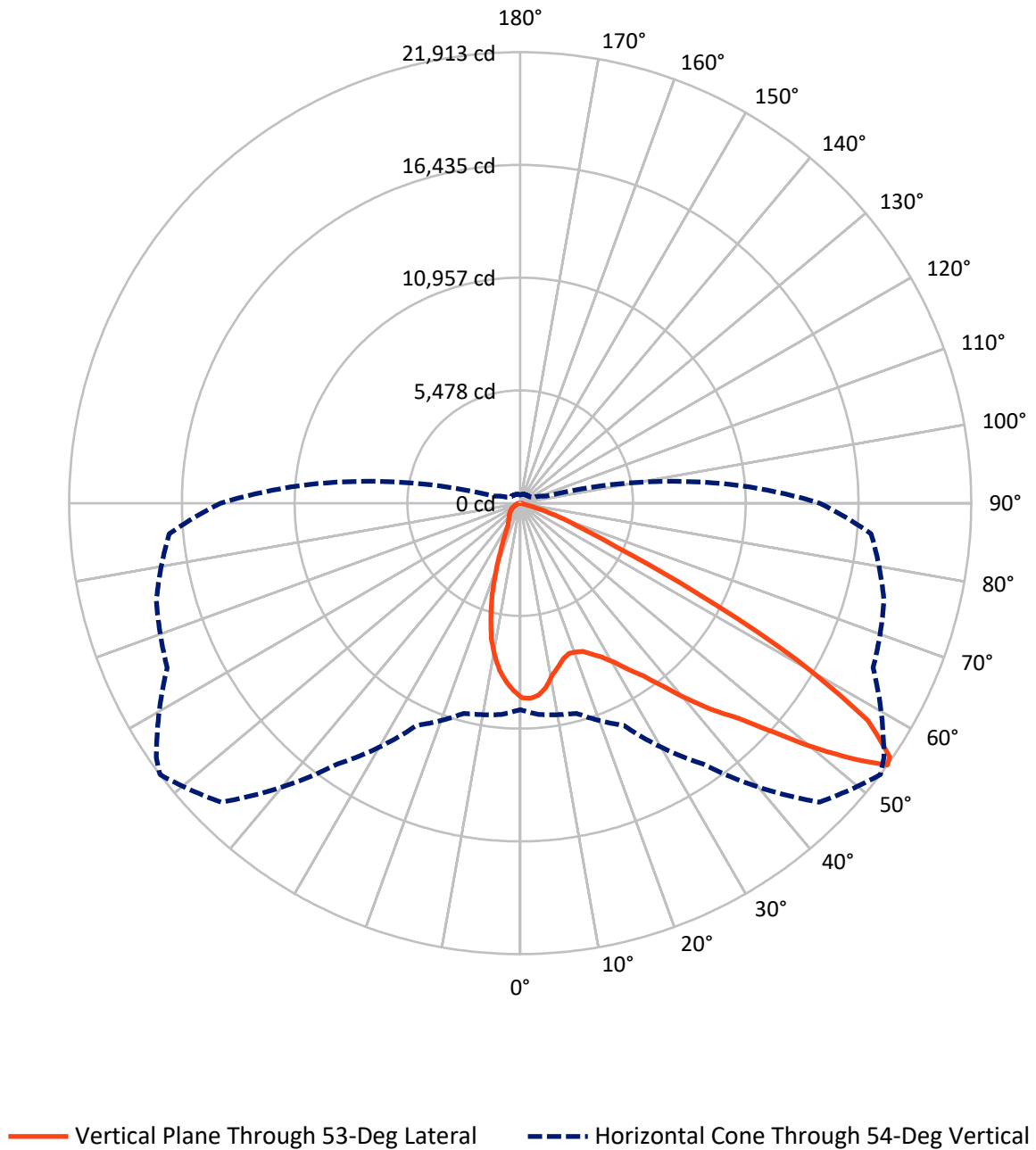
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4356.7	0.0	4356.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21975.3	0.0	21975.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	26332.0	0.0	26332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.5	3.1
10°-20°	1860.5	7.1
20°-30°	2644.1	10.0
30°-40°	4080.6	15.5
40°-50°	6397.9	24.3
50°-60°	7432.1	28.2
60°-70°	2808.3	10.7
70°-80°	267.1	1.0
80°-90°	30.1	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°	26332.0	100.0
0°-180°	26332.0	100.0

Coefficient of Utilization



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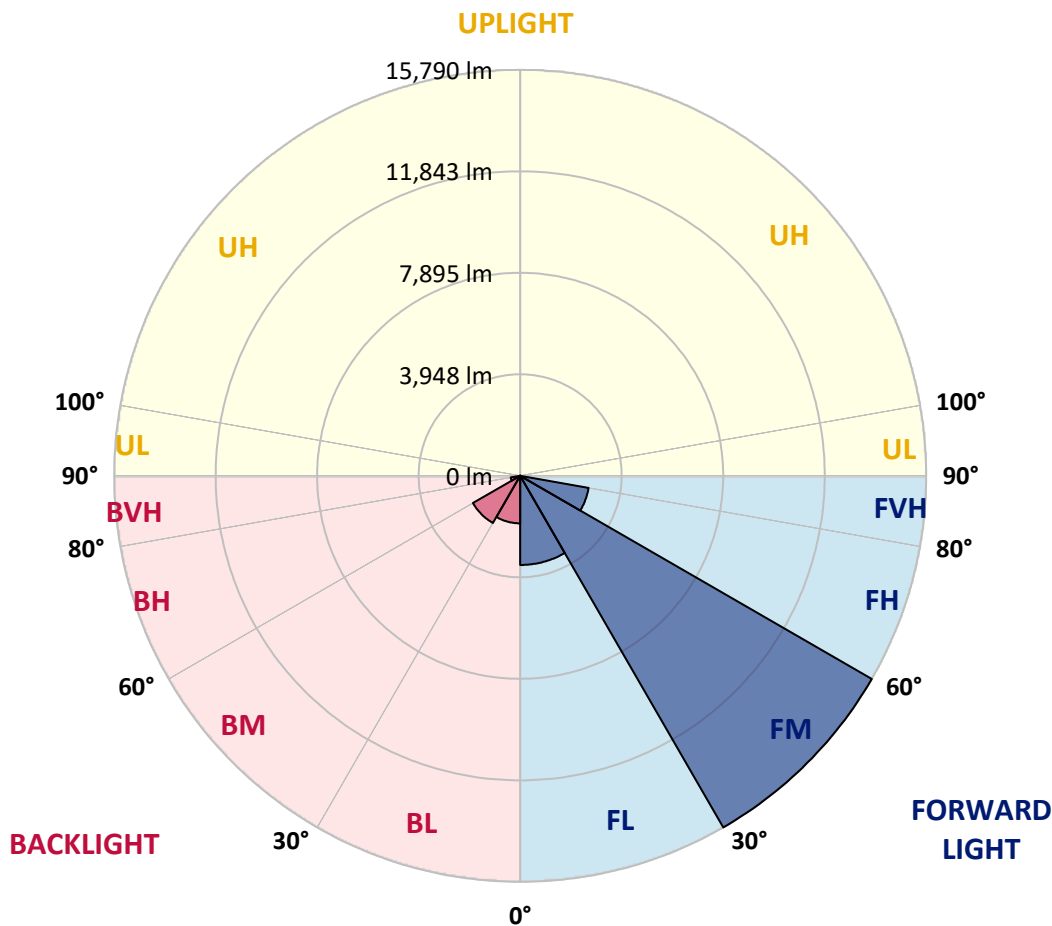
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3467.2	13.2			
FM	(30°-60°)	15790.5	60.0			
FH	(60°-80°)	2702.1	10.3			G2/5000
FVH	(80°-90°)	15.5	0.1			G1/100
BL	(0°-30°)	1848.8	7.0	B3/2500		
BM	(30°-60°)	2120.1	8.1	B2/2500		
BH	(60°-80°)	373.3	1.4	B1/500		G1/500
BVH	(80°-90°)	14.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0
2.5°	9409.0	9325.6	9409.0	9418.8	9477.6	9531.6	9497.3	9575.7	9531.6	9482.5	9467.8
5°	8648.6	8761.4	8766.3	8942.9	8903.7	9227.4	9369.7	9330.5	9570.8	9556.1	9521.8
7.5°	7966.7	7922.6	7981.4	8187.5	8447.5	8820.3	9026.3	9021.4	9364.8	9610.1	9585.6
10°	7333.9	7329.0	7451.6	7613.5	7834.3	8226.7	8511.2	8653.5	9188.2	9561.0	9615.0
12.5°	6907.1	6887.5	7019.9	7152.4	7500.7	7804.8	8167.8	8236.5	8849.7	9389.3	9477.6
15°	6627.5	6671.6	6681.4	6936.5	7157.3	7559.5	7844.1	7986.3	8692.7	9252.0	9590.5
17.5°	6578.4	6637.3	6642.2	6853.1	7088.6	7427.1	7677.3	7868.6	8560.3	9320.7	9595.4
20°	6676.5	6642.2	6671.6	6804.1	7034.6	7358.4	7721.4	7785.2	8516.1	9355.0	9649.3
22.5°	6956.2	6946.3	6872.8	6980.7	7142.6	7481.1	7824.4	7922.6	8643.7	9531.6	9693.5
25°	7265.2	7319.2	7250.5	7235.8	7348.6	7682.2	8138.4	8265.9	9070.5	9850.5	9830.8
27.5°	7844.1	7790.1	7790.1	7721.4	7692.0	7853.9	8476.9	8687.8	9546.3	10262.5	9987.8
30°	8398.4	8457.3	8413.1	8437.6	8241.4	8226.7	8957.6	9217.6	10390.1	10890.4	10321.4
32.5°	9276.5	9198.0	9271.6	9207.8	8947.8	8682.9	9610.1	9879.9	11410.4	11611.6	10821.8
35°	10007.4	9973.1	10287.1	10277.2	9855.4	9595.4	10301.8	10704.0	12121.8	12475.0	11410.4
37.5°	11047.4	10983.7	11341.8	11513.5	11135.7	10748.2	11292.7	11758.7	12784.0	13166.6	12013.8
40°	12116.8	12278.7	12759.5	13044.0	12641.7	12126.7	12504.4	12646.7	13225.5	13618.0	12425.9
42.5°	13470.8	13706.3	14196.8	14442.1	14407.8	13848.5	13735.7	13730.8	13544.4	13490.4	12730.1
45°	14770.8	14682.5	15437.9	15972.7	16404.4	16242.5	14922.9	14775.7	14049.7	13681.7	12808.5
47.5°	15339.8	15310.4	15825.5	16777.2	18248.9	18450.0	16649.6	16080.6	14903.2	14486.3	13235.3
50°	14604.0	14756.1	15266.2	16321.0	18577.5	20113.0	18768.9	18003.6	15899.1	15467.4	14245.9
52.5°	12200.2	12303.3	12788.9	14128.1	17459.1	21094.1	20799.8	20358.3	17728.9	17012.6	16007.0
54°	10032.0	10306.7	10571.6	11915.7	15467.4	20549.6	21913.3	21574.9	18920.9	18297.9	17115.7
55°	8736.9	8898.8	9090.1	10429.3	14088.9	19627.3	21785.8	21815.2	19720.5	18700.2	17861.3
57.5°	6382.2	6495.0	6298.8	6892.4	9673.9	15938.3	19926.6	20721.3	20799.8	19303.6	18317.5
60°	4876.2	4925.2	4704.5	4797.7	6014.3	10939.5	15413.4	16370.0	18763.9	16870.4	15516.4
62.5°	3782.2	3792.0	3787.1	3949.0	4145.2	6436.2	9639.5	10488.2	12936.1	11979.5	10537.2
65°	2786.4	2742.2	2820.7	3311.3	3536.9	4047.1	5077.3	5695.4	7029.7	5935.8	4243.4
67.5°	1805.3	1820.0	1898.5	2462.6	3031.7	3105.2	3124.9	3075.8	3080.7	1697.3	1064.5
70°	1084.1	1108.7	1084.1	1393.2	2168.3	2227.1	2035.8	1986.8	1550.2	402.3	397.4
72.5°	642.6	608.3	544.5	598.5	902.6	1079.2	971.3	966.4	608.3	235.5	235.5
75°	269.8	245.3	201.1	181.5	240.4	230.6	230.6	206.0	161.9	157.0	147.2
77.5°	54.0	54.0	39.2	44.2	58.9	68.7	83.4	83.4	98.1	98.1	93.2
80°	0.0	4.9	14.7	29.4	44.2	63.8	73.6	73.6	83.4	83.4	68.7
82.5°	0.0	4.9	14.7	29.4	39.2	58.9	73.6	73.6	83.4	88.3	73.6
85°	0.0	4.9	14.7	24.5	39.2	49.1	49.1	44.2	34.3	29.4	19.6
87.5°	0.0	0.0	4.9	9.8	4.9	9.8	9.8	9.8	9.8	9.8	9.8
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°	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0	9458.0
2.5°	9502.2	9497.3	9379.5	9188.2	9144.1	8982.2	8962.5	8864.4	8918.4	8736.9	8717.3
5°	9423.7	9364.8	9222.5	9099.9	8741.8	8486.7	8285.6	8040.3	7898.0	7922.6	7829.3
7.5°	9536.5	9384.4	9134.2	8707.5	8270.9	7824.4	7584.1	7083.7	6902.2	6632.4	6593.1
10°	9418.8	9305.9	8918.4	8212.0	7608.6	6966.0	6401.8	5847.5	5425.6	5244.1	5204.8
12.5°	9409.0	9212.7	8565.2	7780.3	6907.1	5984.8	5165.6	4473.9	4056.9	3821.5	3767.5
15°	9256.9	9021.4	8167.8	7113.1	5906.4	4758.4	3865.6	3198.5	2879.6	2742.2	2781.5
17.5°	9271.6	8918.4	7770.5	6406.7	4920.3	3492.8	2639.2	2295.8	2212.4	2246.8	2246.8
20°	9256.9	8687.8	7289.7	5592.4	3767.5	2423.4	1937.7	1815.1	1869.0	1977.0	1952.4
22.5°	9178.4	8579.9	6848.2	4733.9	2771.7	1795.5	1555.1	1560.0	1643.4	1775.8	1805.3
25°	9237.3	8339.5	6289.0	3865.6	2021.1	1432.4	1349.0	1383.4	1471.7	1569.8	1589.4
27.5°	9193.1	8167.8	5705.2	3002.2	1476.6	1231.3	1226.4	1265.6	1304.9	1378.5	1378.5
30°	9242.2	8010.9	5131.3	2232.1	1216.6	1128.3	1108.7	1138.1	1177.3	1192.1	1187.2
32.5°	9423.7	7893.1	4469.0	1667.9	1074.3	1030.2	1030.2	1030.2	1025.3	1044.9	1049.8
35°	9821.0	7912.7	3885.2	1290.2	981.1	946.8	932.1	912.4	902.6	912.4	917.3
37.5°	10252.7	7902.9	3281.9	1098.9	912.4	883.0	848.7	819.2	814.3	824.1	809.4
40°	10444.0	7996.1	2722.6	986.0	848.7	814.3	760.4	735.8	740.7	750.6	740.7
42.5°	10704.0	8025.6	2359.6	897.7	789.8	735.8	701.5	672.1	667.2	681.9	677.0
45°	10699.1	7858.8	1977.0	848.7	735.8	677.0	632.8	608.3	608.3	618.1	623.0
47.5°	11013.1	7834.3	1697.3	804.5	696.6	637.7	583.8	564.1	559.2	559.2	549.4
50°	11744.0	8177.6	1481.5	755.5	647.5	593.6	549.4	524.9	505.3	495.5	490.6
52.5°	13171.6	9247.1	1314.7	696.6	593.6	549.4	510.2	490.6	466.0	441.5	436.6
54°	14554.9	10350.8	1304.9	647.5	549.4	520.0	485.7	475.8	446.4	412.1	402.3
55°	15177.9	10993.5	1339.2	608.3	520.0	500.4	470.9	461.1	431.7	392.4	387.5
57.5°	15693.0	11243.7	1319.6	505.3	470.9	466.0	441.5	426.8	392.4	338.5	328.7
60°	12631.9	8501.4	946.8	446.4	431.7	421.9	402.3	392.4	348.3	289.4	284.5
62.5°	7981.4	4890.9	603.4	392.4	377.7	363.0	338.5	328.7	289.4	230.6	215.8
65°	3399.6	2026.0	407.2	348.3	323.8	299.2	279.6	264.9	230.6	171.7	166.8
67.5°	883.0	721.1	338.5	304.1	269.8	235.5	220.8	196.2	157.0	117.7	112.8
70°	397.4	363.0	284.5	255.1	215.8	181.5	161.9	137.4	103.0	78.5	73.6
72.5°	235.5	230.6	215.8	191.3	161.9	137.4	117.7	93.2	68.7	44.2	44.2
75°	147.2	142.3	147.2	132.5	112.8	103.0	88.3	63.8	39.2	19.6	19.6
77.5°	88.3	88.3	88.3	83.4	78.5	78.5	63.8	39.2	19.6	4.9	4.9
80°	68.7	68.7	73.6	68.7	68.7	68.7	54.0	29.4	9.8	0.0	0.0
82.5°	68.7	73.6	83.4	78.5	68.7	58.9	49.1	29.4	9.8	0.0	0.0
85°	19.6	14.7	24.5	34.3	49.1	44.2	34.3	24.5	9.8	0.0	0.0
87.5°	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9	4.9	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)