

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: P534419

Luminaire Tested: **GALN-SA9D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534419
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-SA9D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA 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: 32528 lumens
Efficiency: N/A
Efficacy: 58.9 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): 552
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

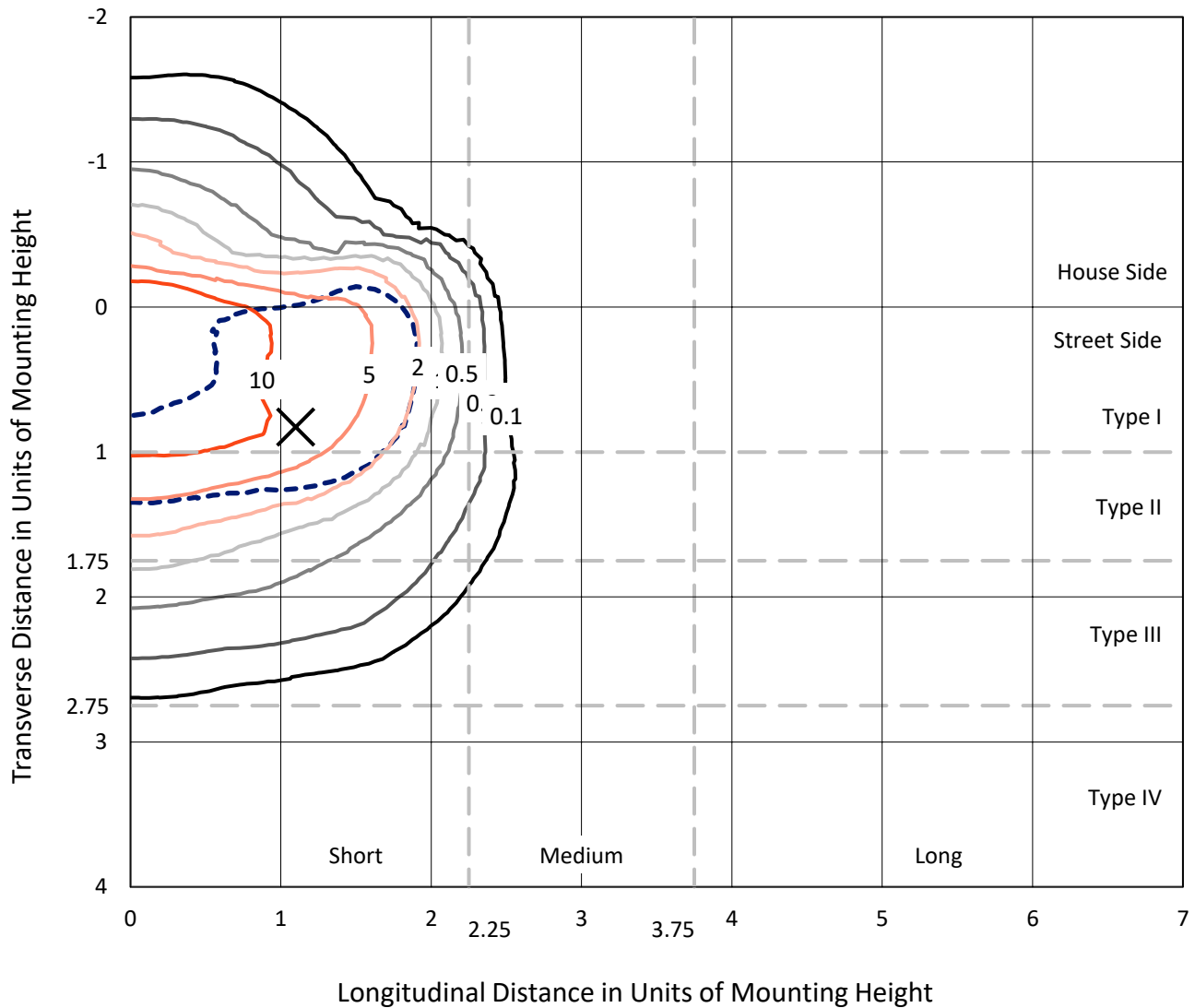


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

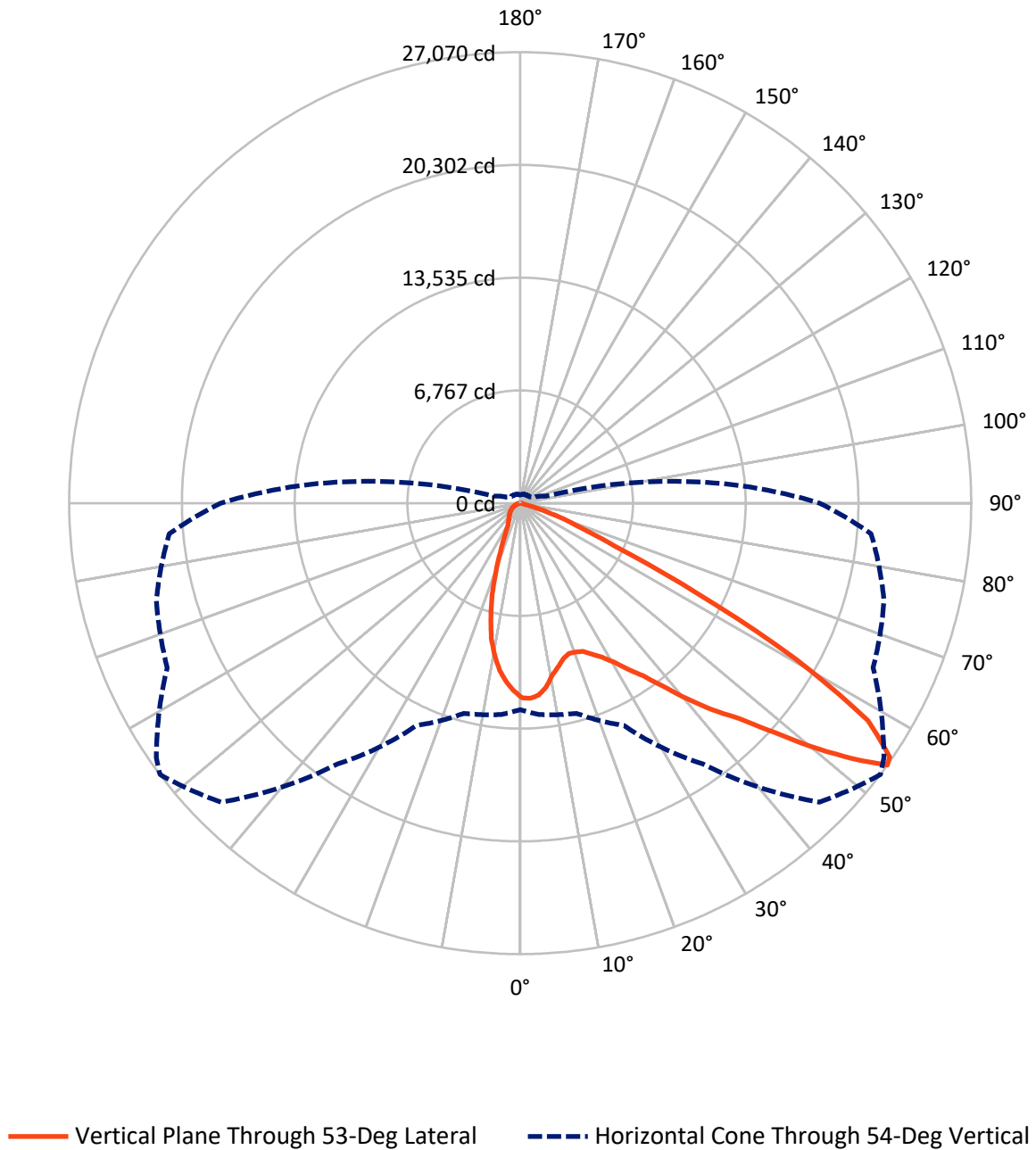


Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5381.8	0.0	5381.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27146.2	0.0	27146.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	32528.0	0.0	32528.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.4	3.1
10°-20°	2298.2	7.1
20°-30°	3266.3	10.0
30°-40°	5040.7	15.5
40°-50°	7903.4	24.3
50°-60°	9180.9	28.2
60°-70°	3469.1	10.7
70°-80°	329.9	1.0
80°-90°	37.1	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°	32528.0	100.0
0°-180°	32528.0	100.0

Coefficient of Utilization



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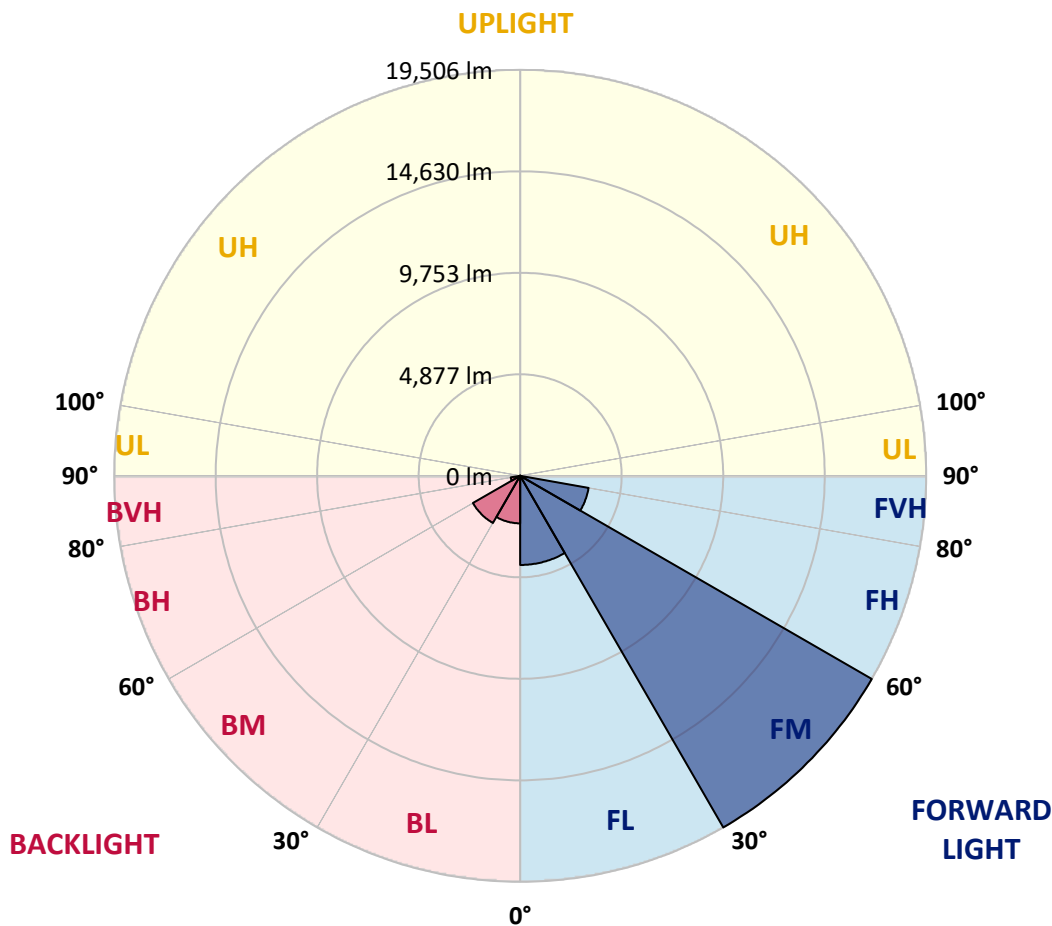
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4283.1	13.2			
FM	(30°-60°)	19506.0	60.0			
FH	(60°-80°)	3337.9	10.3			G2/5000
FVH	(80°-90°)	19.2	0.1			G1/100
BL	(0°-30°)	2283.8	7.0	B3/2500		
BM	(30°-60°)	2619.0	8.1	B3/5000		
BH	(60°-80°)	461.1	1.4	B1/500		G1/500
BVH	(80°-90°)	17.9	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°	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5
2.5°	11622.9	11519.9	11622.9	11635.0	11707.7	11774.4	11732.0	11828.9	11774.4	11713.8	11695.6
5°	10683.6	10823.0	10829.1	11047.2	10998.7	11398.7	11574.4	11526.0	11822.9	11804.7	11762.3
7.5°	9841.3	9786.8	9859.5	10114.0	10435.2	10895.7	11150.2	11144.2	11568.4	11871.4	11841.1
10°	9059.6	9053.5	9205.0	9405.0	9677.7	10162.5	10513.9	10689.7	11350.2	11810.8	11877.4
12.5°	8532.4	8508.1	8671.7	8835.4	9265.6	9641.3	10089.8	10174.6	10932.1	11598.7	11707.7
15°	8186.9	8241.5	8253.6	8568.7	8841.4	9338.3	9689.8	9865.5	10738.2	11429.0	11847.1
17.5°	8126.3	8199.1	8205.1	8465.7	8756.6	9174.7	9483.8	9720.1	10574.5	11513.8	11853.2
20°	8247.5	8205.1	8241.5	8405.1	8689.9	9089.9	9538.3	9617.1	10520.0	11556.3	11919.8
22.5°	8593.0	8580.8	8489.9	8623.3	8823.2	9241.4	9665.6	9786.8	10677.6	11774.4	11974.4
25°	8974.7	9041.4	8956.5	8938.4	9077.7	9489.8	10053.4	10211.0	11204.8	12168.3	12144.1
27.5°	9689.8	9623.1	9623.1	9538.3	9501.9	9701.9	10471.5	10732.1	11792.6	12677.3	12338.0
30°	10374.6	10447.3	10392.7	10423.0	10180.7	10162.5	11065.4	11386.6	12834.9	13453.0	12750.1
32.5°	11459.3	11362.3	11453.2	11374.5	11053.3	10726.0	11871.4	12204.7	14095.4	14343.8	13368.2
35°	12362.2	12319.8	12707.6	12695.5	12174.4	11853.2	12725.8	13222.7	14974.0	15410.4	14095.4
37.5°	13646.9	13568.1	14010.5	14222.6	13756.0	13277.3	13949.9	14525.6	15792.1	16264.8	14840.7
40°	14968.0	15168.0	15761.8	16113.3	15616.4	14980.1	15446.7	15622.5	16337.5	16822.3	15349.8
42.5°	16640.5	16931.4	17537.4	17840.4	17798.0	17107.1	16967.8	16961.7	16731.4	16664.8	15725.5
45°	18246.4	18137.3	19070.5	19731.1	20264.3	20064.4	18434.3	18252.5	17355.6	16901.1	15822.4
47.5°	18949.3	18913.0	19549.3	20724.9	22542.9	22791.3	20567.3	19864.4	18410.0	17894.9	16349.6
50°	18040.4	18228.2	18858.4	20161.3	22948.9	24845.6	23185.2	22239.9	19640.2	19106.9	17598.0
52.5°	15071.0	15198.3	15798.2	17452.5	21567.2	26057.6	25694.0	25148.6	21900.5	21015.8	19773.5
54°	12392.5	12731.9	13059.1	14719.5	19106.9	25385.0	27069.6	26651.5	23373.1	22603.5	21143.0
55°	10792.7	10992.7	11229.0	12883.4	17404.1	24245.7	26912.1	26948.4	24360.8	23100.4	22064.1
57.5°	7883.9	8023.3	7780.9	8514.2	11950.1	19688.7	24615.4	25597.1	25694.0	23845.8	22627.7
60°	6023.6	6084.2	5811.5	5926.6	7429.5	13513.6	19040.2	20221.9	23179.2	20840.0	19167.5
62.5°	4672.2	4684.3	4678.3	4878.2	5120.6	7950.6	11907.7	12956.1	15980.0	14798.3	13016.7
65°	3442.0	3387.5	3484.4	4090.4	4369.2	4999.4	6272.0	7035.6	8683.9	7332.5	5241.8
67.5°	2230.0	2248.2	2345.2	3042.1	3745.0	3835.9	3860.2	3799.6	3805.6	2096.7	1315.0
70°	1339.2	1369.5	1339.2	1721.0	2678.5	2751.2	2514.9	2454.3	1914.9	496.9	490.9
72.5°	793.8	751.4	672.7	739.3	1115.0	1333.2	1199.9	1193.8	751.4	290.9	290.9
75°	333.3	303.0	248.5	224.2	296.9	284.8	284.8	254.5	200.0	193.9	181.8
77.5°	66.7	66.7	48.5	54.5	72.7	84.8	103.0	103.0	121.2	121.2	115.1
80°	0.0	6.1	18.2	36.4	54.5	78.8	90.9	90.9	103.0	103.0	84.8
82.5°	0.0	6.1	18.2	36.4	48.5	72.7	90.9	90.9	103.0	109.1	90.9
85°	0.0	6.1	18.2	30.3	48.5	60.6	60.6	54.5	42.4	36.4	24.2
87.5°	0.0	0.0	6.1	12.1	6.1	12.1	12.1	12.1	12.1	12.1	12.1
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°	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5	11683.5
2.5°	11738.0	11732.0	11586.6	11350.2	11295.7	11095.7	11071.5	10950.3	11016.9	10792.7	10768.5
5°	11641.1	11568.4	11392.6	11241.1	10798.8	10483.6	10235.2	9932.2	9756.5	9786.8	9671.6
7.5°	11780.5	11592.6	11283.6	10756.3	10217.0	9665.6	9368.6	8750.5	8526.3	8193.0	8144.5
10°	11635.0	11495.7	11016.9	10144.3	9398.9	8605.1	7908.2	7223.4	6702.3	6478.0	6429.6
12.5°	11622.9	11380.5	10580.6	9611.0	8532.4	7393.1	6381.1	5526.6	5011.5	4720.7	4654.0
15°	11435.1	11144.2	10089.8	8786.9	7296.1	5878.1	4775.2	3951.1	3557.2	3387.5	3436.0
17.5°	11453.2	11016.9	9598.9	7914.2	6078.1	4314.7	3260.2	2836.0	2733.0	2775.4	2775.4
20°	11435.1	10732.1	9005.0	6908.3	4654.0	2993.6	2393.7	2242.2	2308.8	2442.1	2411.8
22.5°	11338.1	10598.8	8459.6	5847.8	3423.8	2217.9	1921.0	1927.1	2030.1	2193.7	2230.0
25°	11410.8	10301.8	7768.8	4775.2	2496.7	1769.5	1666.5	1708.9	1818.0	1939.2	1963.4
27.5°	11356.3	10089.8	7047.7	3708.7	1824.0	1521.0	1515.0	1563.5	1611.9	1702.8	1702.8
30°	11416.9	9895.8	6338.7	2757.3	1502.9	1393.8	1369.5	1405.9	1454.4	1472.6	1466.5
32.5°	11641.1	9750.4	5520.6	2060.4	1327.1	1272.6	1272.6	1272.6	1266.5	1290.8	1296.8
35°	12131.9	9774.6	4799.4	1593.8	1212.0	1169.6	1151.4	1127.1	1115.0	1127.1	1133.2
37.5°	12665.2	9762.5	4054.1	1357.4	1127.1	1090.8	1048.4	1012.0	1005.9	1018.1	999.9
40°	12901.6	9877.7	3363.3	1218.0	1048.4	1005.9	939.3	909.0	915.0	927.2	915.0
42.5°	13222.7	9914.0	2914.8	1109.0	975.6	909.0	866.6	830.2	824.1	842.3	836.3
45°	13216.7	9708.0	2442.1	1048.4	909.0	836.3	781.7	751.4	751.4	763.5	769.6
47.5°	13604.5	9677.7	2096.7	993.8	860.5	787.8	721.1	696.9	690.8	690.8	678.7
50°	14507.4	10101.9	1830.1	933.2	799.9	733.2	678.7	648.4	624.2	612.1	606.0
52.5°	16270.9	11422.9	1624.1	860.5	733.2	678.7	630.2	606.0	575.7	545.4	539.3
54°	17979.8	12786.4	1611.9	799.9	678.7	642.4	599.9	587.8	551.5	509.0	496.9
55°	18749.4	13580.3	1654.4	751.4	642.4	618.1	581.8	569.6	533.3	484.8	478.7
57.5°	19385.7	13889.3	1630.1	624.2	581.8	575.7	545.4	527.2	484.8	418.1	406.0
60°	15604.3	10501.8	1169.6	551.5	533.3	521.2	496.9	484.8	430.3	357.5	351.5
62.5°	9859.5	6041.7	745.4	484.8	466.6	448.4	418.1	406.0	357.5	284.8	266.6
65°	4199.5	2502.7	503.0	430.3	400.0	369.7	345.4	327.2	284.8	212.1	206.0
67.5°	1090.8	890.8	418.1	375.7	333.3	290.9	272.7	242.4	193.9	145.4	139.4
70°	490.9	448.4	351.5	315.1	266.6	224.2	200.0	169.7	127.3	97.0	90.9
72.5°	290.9	284.8	266.6	236.3	200.0	169.7	145.4	115.1	84.8	54.5	54.5
75°	181.8	175.7	181.8	163.6	139.4	127.3	109.1	78.8	48.5	24.2	24.2
77.5°	109.1	109.1	109.1	103.0	97.0	97.0	78.8	48.5	24.2	6.1	6.1
80°	84.8	84.8	90.9	84.8	84.8	84.8	66.7	36.4	12.1	0.0	0.0
82.5°	84.8	90.9	103.0	97.0	84.8	72.7	60.6	36.4	12.1	0.0	0.0
85°	24.2	18.2	30.3	42.4	60.6	54.5	42.4	30.3	12.1	0.0	0.0
87.5°	12.1	12.1	12.1	12.1	6.1	6.1	6.1	6.1	6.1	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)