

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: P534271

Luminaire Tested: **GALN-SA9D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37676 lumens
Efficiency: N/A
Efficacy: 68.3 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

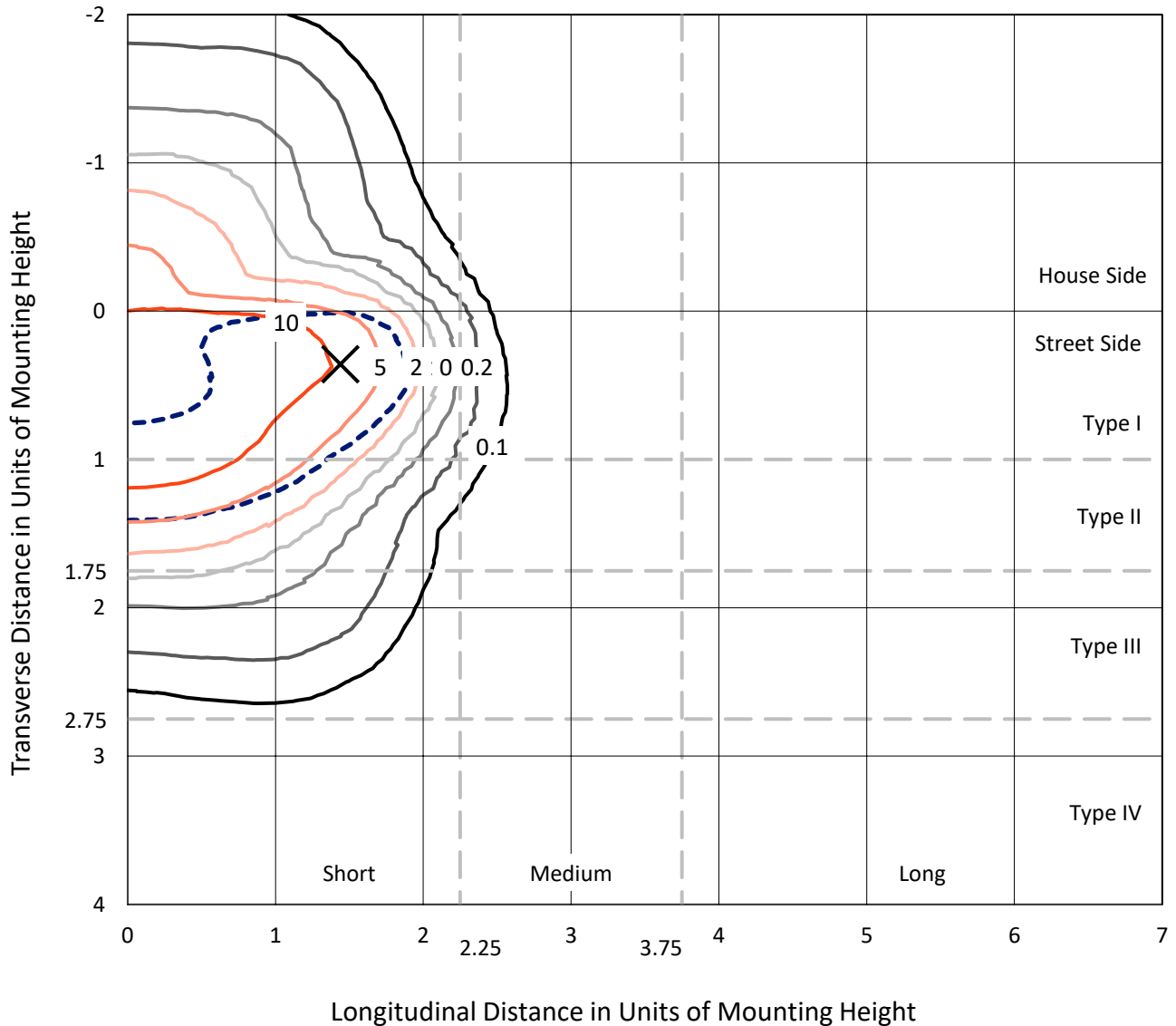
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

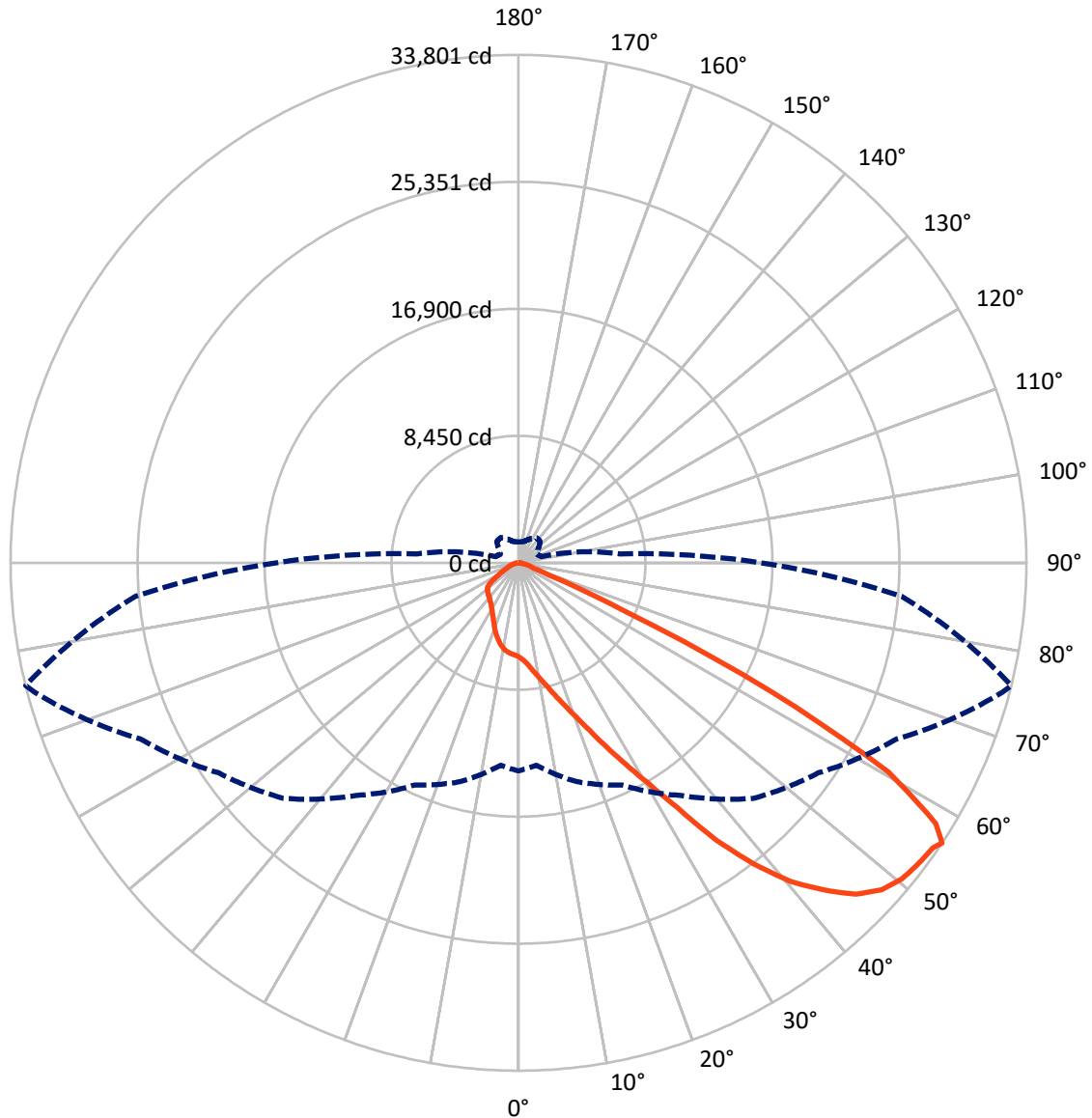
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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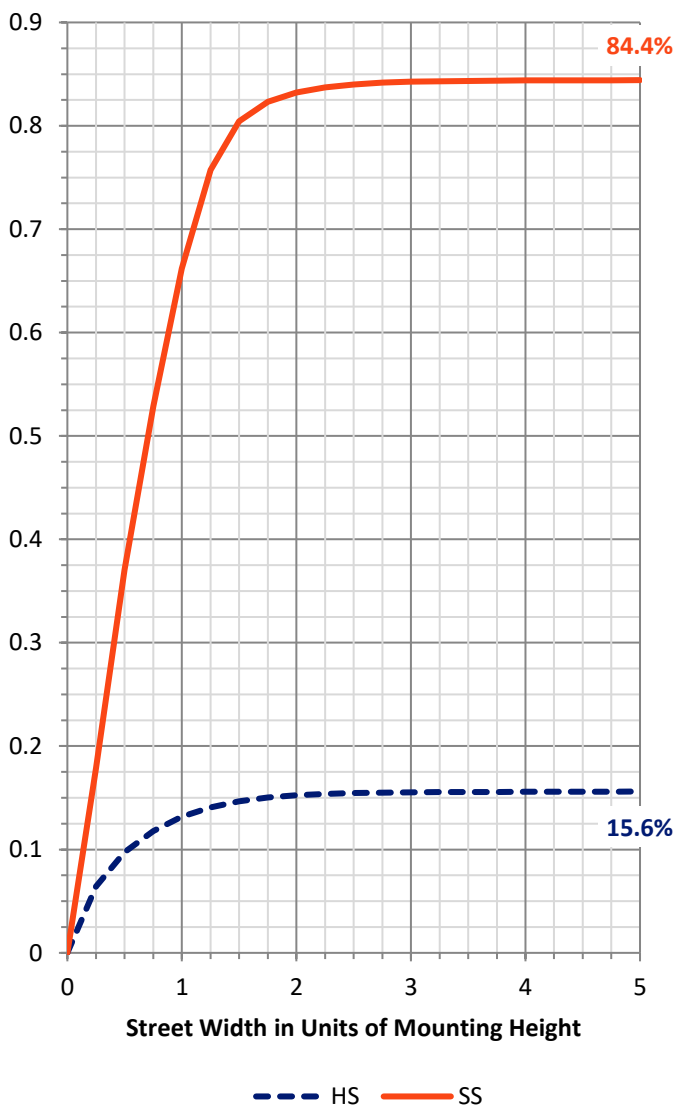
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5918.7	0.0	5918.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	31757.3	0.0	31757.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	37676.0	0.0	37676.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.7	1.7
10°-20°	2029.5	5.4
20°-30°	3680.1	9.8
30°-40°	6346.5	16.8
40°-50°	10310.1	27.4
50°-60°	10867.2	28.8
60°-70°	3320.4	8.8
70°-80°	425.6	1.1
80°-90°	64.7	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°	37676.0	100.0
0°-180°	37676.0	100.0

Coefficient of Utilization

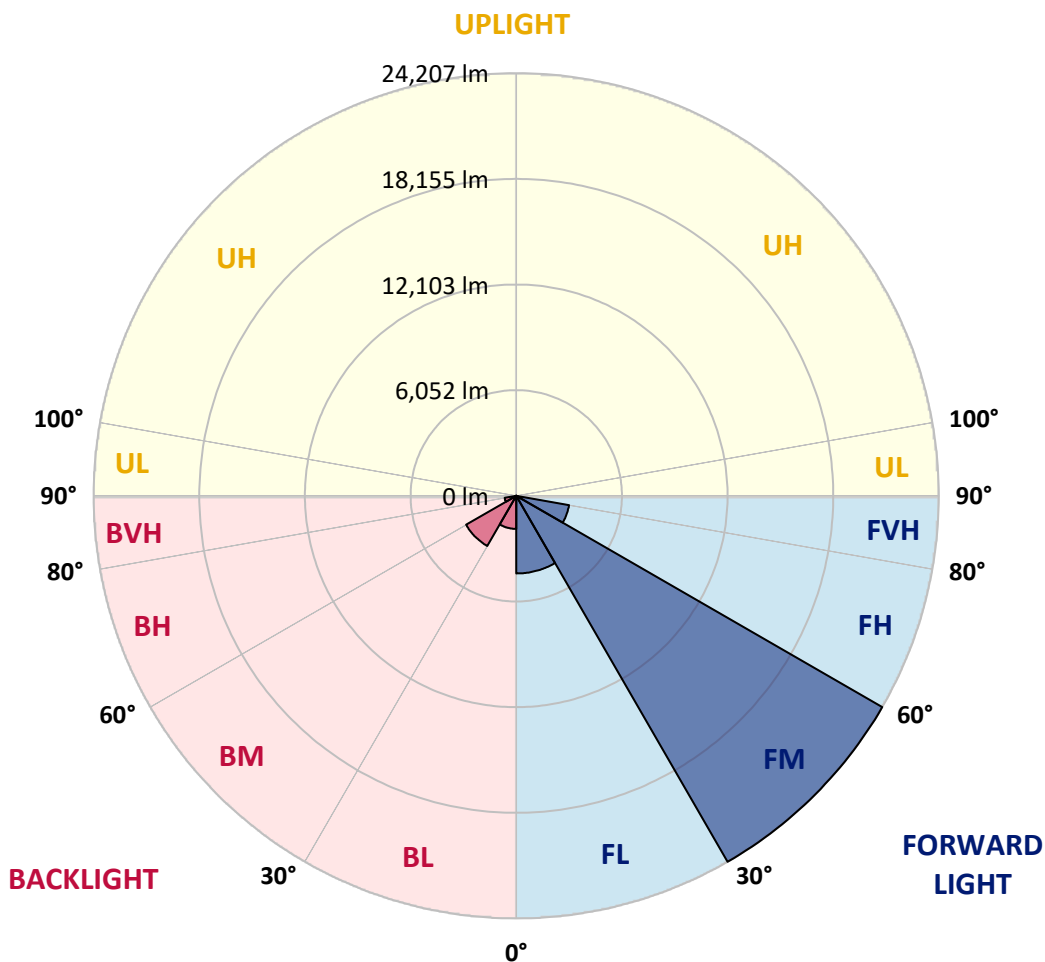


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4448.0	11.8			
FM (30°-60°)	24206.8	64.2			
FH (60°-80°)	3070.8	8.2			G2/5000
FVH (80°-90°)	31.7	0.1			G1/100
BL (0°-30°)	1893.4	5.0	B3/2500		
BM (30°-60°)	3317.1	8.8	B3/5000		
BH (60°-80°)	675.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	33.0	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°	55°	65°	75°	76°	85°
0°	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2
2.5°	7222.7	7056.0	7062.9	7049.1	7028.2	6951.8	6722.6	6687.9	6535.1	6493.5	6354.6
5°	8090.8	7944.9	8028.3	7903.3	7785.2	7715.8	7340.7	7167.1	6924.0	6833.8	6639.3
7.5°	8632.5	8563.0	8535.3	8542.2	8431.1	8257.5	8090.8	7708.8	7382.4	7313.0	6903.2
10°	8896.4	8854.7	8896.4	8875.6	8924.2	8945.0	8653.3	8424.1	7944.9	7826.9	7188.0
12.5°	8958.9	9042.2	9077.0	9167.2	9285.3	9486.7	9465.9	9153.4	8514.4	8438.0	7625.5
15°	9111.7	9181.1	9146.4	9292.2	9514.5	9854.8	10035.4	9986.7	9299.2	9160.3	8132.5
17.5°	9250.6	9125.6	9243.6	9535.3	9757.6	10278.4	10716.0	10917.4	10153.4	9993.7	8597.8
20°	9438.1	9403.4	9382.5	9528.4	9924.2	10618.7	11486.8	11854.9	11111.8	10945.1	9264.5
22.5°	10007.6	10014.5	10000.6	9785.3	10070.1	10854.8	12160.5	13070.3	12257.7	12118.8	10021.5
25°	10757.6	10667.3	10597.9	10424.3	10389.5	11070.1	12841.1	14556.5	13632.8	13535.6	10841.0
27.5°	11549.3	11549.3	11341.0	11181.3	10959.0	11604.9	13466.1	16001.0	15292.6	15160.7	11556.3
30°	12410.5	12459.1	12431.3	12091.0	11952.1	12188.3	14105.1	17848.3	17195.5	17028.8	12736.9
32.5°	13681.4	13577.2	13695.3	13410.6	13000.8	13209.2	15112.1	19501.2	19667.9	19431.8	14285.6
35°	15362.1	15299.6	15223.2	14757.9	14271.7	14438.4	16535.8	21536.1	22772.3	22654.2	15848.2
37.5°	16869.1	16834.4	16771.9	16452.4	15889.9	16091.3	18153.9	23654.3	25800.2	25411.3	18056.7
40°	18452.5	18640.1	18438.7	18153.9	17640.0	18084.5	20056.8	24911.3	28349.0	27876.7	19744.3
42.5°	20598.5	20452.7	20543.0	20022.1	19744.3	20230.4	21966.7	26168.3	30328.3	29765.8	21536.1
45°	22883.4	22890.3	22647.3	22480.6	21758.3	22286.1	23140.3	26862.8	31904.8	31467.3	22890.3
47.5°	24348.8	24341.8	24605.7	24869.6	24126.5	23605.6	23939.0	27522.6	32717.3	32515.9	23383.4
50°	24119.6	24189.0	24529.3	25515.5	25904.4	25203.0	24689.0	27328.1	33085.4	33064.6	23807.0
52.5°	20980.5	21209.7	21779.1	23202.8	25161.3	26029.4	25473.8	27689.2	33266.0	33300.7	24439.0
55°	15973.2	16098.2	17181.6	18910.9	21077.7	24050.1	25161.3	27974.0	33404.9	33467.4	25203.0
56°	13855.0	13521.7	15084.3	16313.5	18904.0	22154.2	24369.6	27751.7	33321.5	33800.7	25584.9
57.5°	10459.0	10236.8	11500.7	13035.5	15528.8	18959.5	21911.1	26703.1	32759.0	32752.1	25036.3
60°	6361.5	6139.3	7111.6	8014.4	9410.3	11674.3	14806.5	21265.2	27696.2	28279.6	20272.1
62.5°	3785.0	3923.9	4882.3	5430.9	5882.3	6118.4	7660.2	12639.7	18480.3	18897.0	12577.2
65°	2521.0	2569.6	3291.9	4194.7	4396.1	3500.2	3118.3	5118.4	8014.4	7757.4	5187.8
67.5°	1555.7	1666.8	2208.5	3153.0	3493.3	2555.7	1479.3	1909.8	2208.5	2208.5	1500.1
70°	944.5	1000.1	1472.3	2146.0	2396.0	1645.9	1076.5	1076.5	1062.6	1041.7	895.9
72.5°	451.4	486.1	750.0	1104.2	1125.1	868.1	833.4	909.8	888.9	882.0	743.1
75°	194.5	208.3	263.9	347.2	395.9	368.1	507.0	652.8	673.7	652.8	534.8
77.5°	62.5	69.4	97.2	125.0	132.0	159.7	215.3	270.9	312.5	291.7	263.9
80°	6.9	13.9	27.8	62.5	97.2	125.0	159.7	180.6	201.4	201.4	187.5
82.5°	6.9	6.9	27.8	55.6	90.3	118.1	152.8	173.6	201.4	208.3	194.5
85°	0.0	6.9	20.8	48.6	76.4	76.4	69.4	69.4	48.6	48.6	48.6
87.5°	0.0	0.0	6.9	6.9	6.9	13.9	13.9	13.9	13.9	13.9	13.9
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°	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2	6271.2
2.5°	6326.8	6312.9	6125.4	6007.3	5944.8	5819.8	5743.4	5687.9	5646.2	5597.6	5604.5
5°	6410.1	6361.5	6049.0	5833.7	5576.7	5437.8	5319.8	5222.5	5160.0	5146.2	5118.4
7.5°	6646.3	6389.3	5917.0	5528.1	5201.7	5062.8	4958.6	4896.1	4923.9	4861.4	4910.0
10°	6826.8	6444.8	5757.3	5194.8	4868.4	4764.2	4708.6	4757.2	4826.7	4798.9	4764.2
12.5°	7049.1	6500.4	5500.3	4875.3	4569.7	4493.3	4590.6	4680.8	4819.7	4875.3	4805.9
15°	7299.1	6562.9	5173.9	4507.2	4312.8	4375.3	4542.0	4701.7	4840.6	4910.0	4951.7
17.5°	7604.6	6542.1	4854.5	4215.5	4069.7	4250.3	4451.7	4597.5	4805.9	4910.0	4882.3
20°	7889.4	6472.6	4500.3	3923.9	3930.8	4097.5	4264.2	4500.3	4611.4	4750.3	4701.7
22.5°	8160.2	6347.6	4132.2	3722.5	3722.5	3979.4	4062.8	4215.5	4312.8	4382.2	4375.3
25°	8542.2	6111.5	3826.6	3528.0	3611.3	3778.0	3847.5	3896.1	3854.4	3910.0	3916.9
27.5°	8813.1	5868.4	3576.6	3354.4	3507.2	3632.2	3611.3	3583.6	3486.3	3409.9	3458.6
30°	9104.7	5583.7	3361.3	3236.3	3319.7	3430.8	3347.4	3264.1	3111.3	2986.3	2993.2
32.5°	9521.4	5451.7	3173.8	3097.4	3208.5	3222.4	3132.1	3007.1	2854.3	2736.3	2729.3
35°	10299.3	5368.4	3014.1	3007.1	3028.0	3034.9	2944.6	2791.8	2729.3	2632.1	2666.8
37.5°	11077.1	5326.7	2903.0	2875.2	2868.2	2875.2	2771.0	2625.2	2743.2	2736.3	2750.2
40°	12070.2	5514.2	2743.2	2708.5	2715.4	2715.4	2583.5	2541.8	2750.2	2771.0	2778.0
42.5°	13077.2	5750.4	2639.1	2527.9	2555.7	2555.7	2486.3	2437.7	2583.5	2444.6	2423.8
45°	13952.3	6097.6	2527.9	2347.4	2416.8	2451.5	2430.7	2347.4	2257.1	2021.0	2021.0
47.5°	14237.0	6403.2	2396.0	2173.7	2229.3	2382.1	2319.6	2146.0	1986.2	1791.8	1777.9
50°	14737.0	6736.5	2291.8	1972.3	2090.4	2277.9	2215.4	2041.8	1861.2	1722.3	1729.3
52.5°	15251.0	7118.5	2097.4	1736.2	1882.1	2194.6	2194.6	2000.1	1722.3	1625.1	1611.2
55°	16021.8	7104.6	1750.1	1423.7	1680.7	2069.6	2104.3	1791.8	1541.8	1465.4	1465.4
56°	16133.0	6785.1	1576.5	1333.4	1590.4	2034.8	2041.8	1736.2	1472.3	1389.0	1389.0
57.5°	15299.6	6125.4	1382.0	1222.3	1479.3	1972.3	1979.3	1687.6	1416.8	1298.7	1284.8
60°	11771.6	4146.1	1152.9	1090.3	1340.4	1777.9	1812.6	1534.8	1243.1	1152.9	1145.9
62.5°	6646.3	2298.8	1014.0	986.2	1152.9	1514.0	1618.2	1340.4	1055.6	1007.0	1020.9
65°	3034.9	1264.0	854.2	798.7	930.6	1166.7	1305.6	1104.2	868.1	812.6	812.6
67.5°	1111.2	861.2	729.2	632.0	652.8	757.0	847.3	715.3	576.4	493.1	513.9
70°	791.7	722.3	638.9	548.6	507.0	493.1	486.1	402.8	284.7	222.2	236.1
72.5°	638.9	597.3	534.8	465.3	395.9	333.4	284.7	208.3	132.0	90.3	83.3
75°	458.4	437.5	388.9	333.4	277.8	236.1	194.5	132.0	69.4	34.7	34.7
77.5°	236.1	236.1	229.2	208.3	173.6	138.9	111.1	76.4	41.7	13.9	13.9
80°	180.6	194.5	201.4	180.6	159.7	125.0	90.3	55.6	27.8	6.9	6.9
82.5°	173.6	201.4	215.3	187.5	159.7	118.1	90.3	55.6	27.8	6.9	6.9
85°	41.7	41.7	62.5	69.4	90.3	97.2	76.4	48.6	20.8	6.9	6.9
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	6.9	6.9	6.9	6.9	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)