

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: P531521

Luminaire Tested: **GALN-SA6D-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531521
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-SA6D-740-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 27899 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

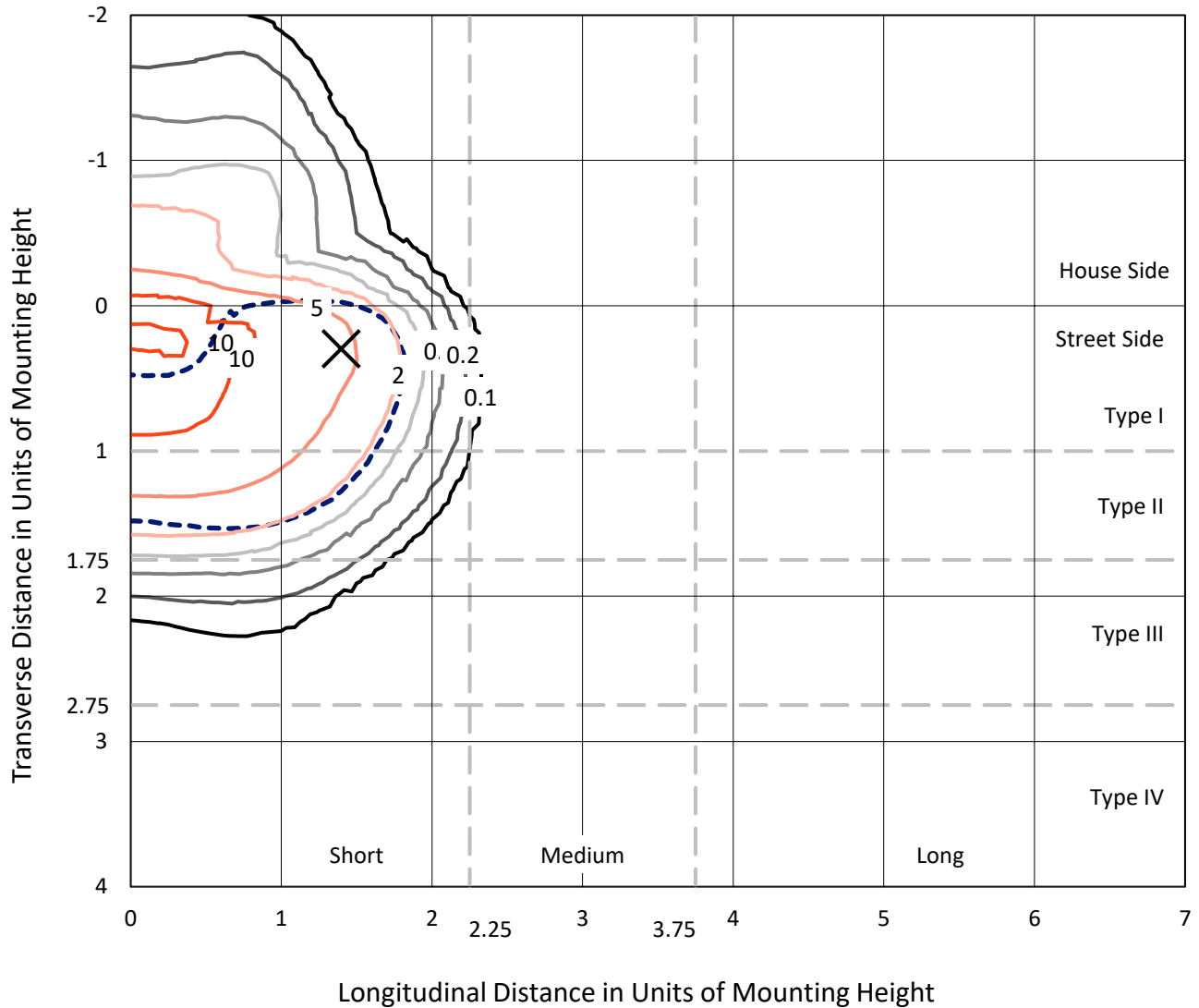
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

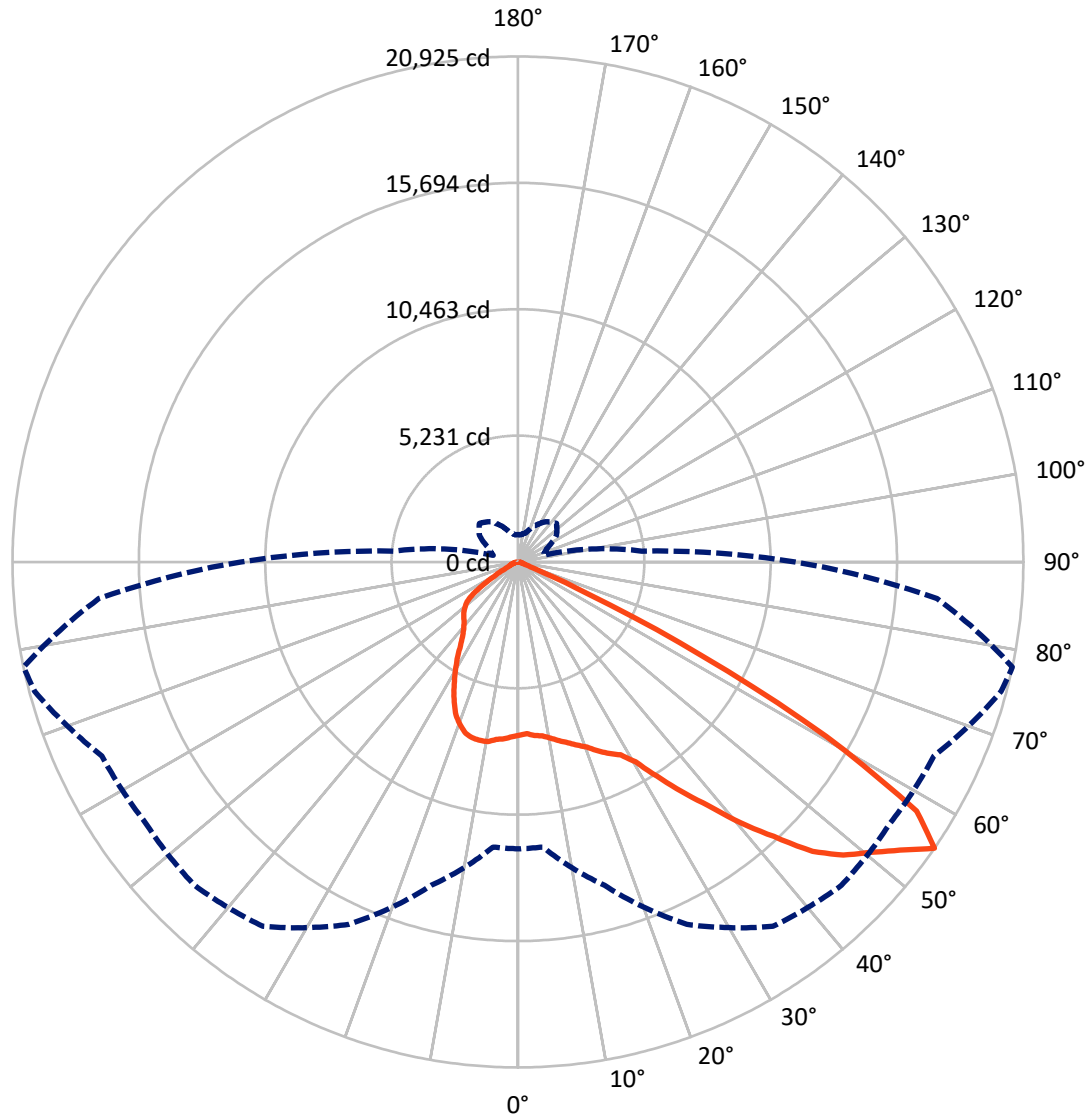
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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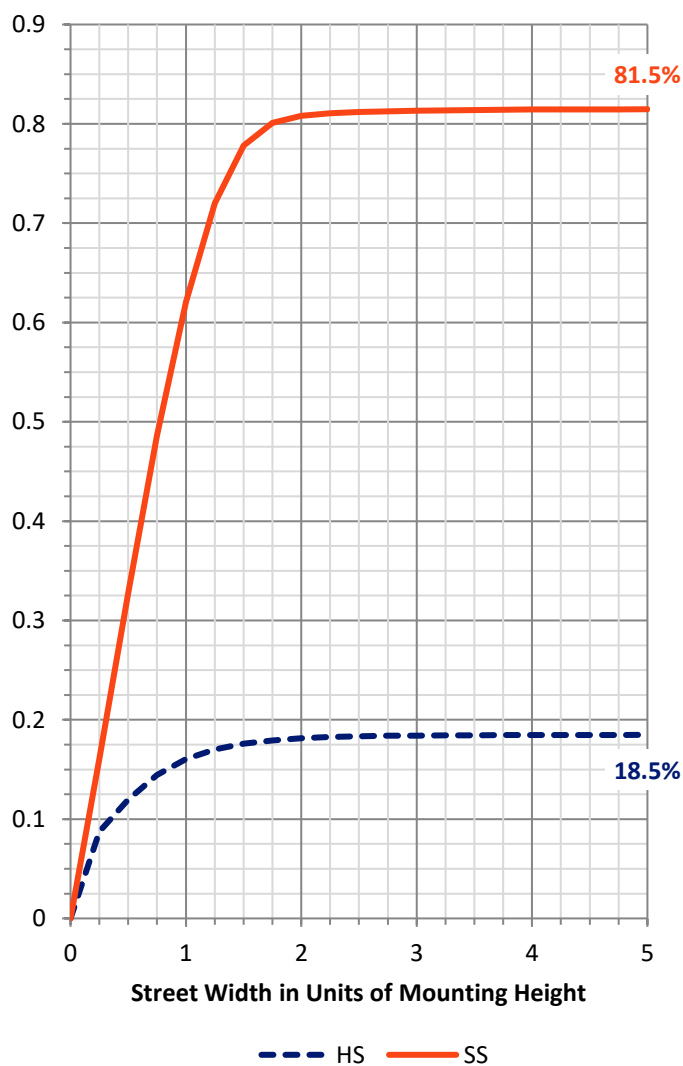
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5181.9	0.0	5181.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	22717.1	0.0	22717.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	27899.0	0.0	27899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.6	2.3
10°-20°	1692.7	6.1
20°-30°	2967.0	10.6
30°-40°	4892.2	17.5
40°-50°	7118.7	25.5
50°-60°	8066.2	28.9
60°-70°	2306.3	8.3
70°-80°	179.1	0.6
80°-90°	37.3	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°	27899.0	100.0
0°-180°	27899.0	100.0

Coefficient of Utilization

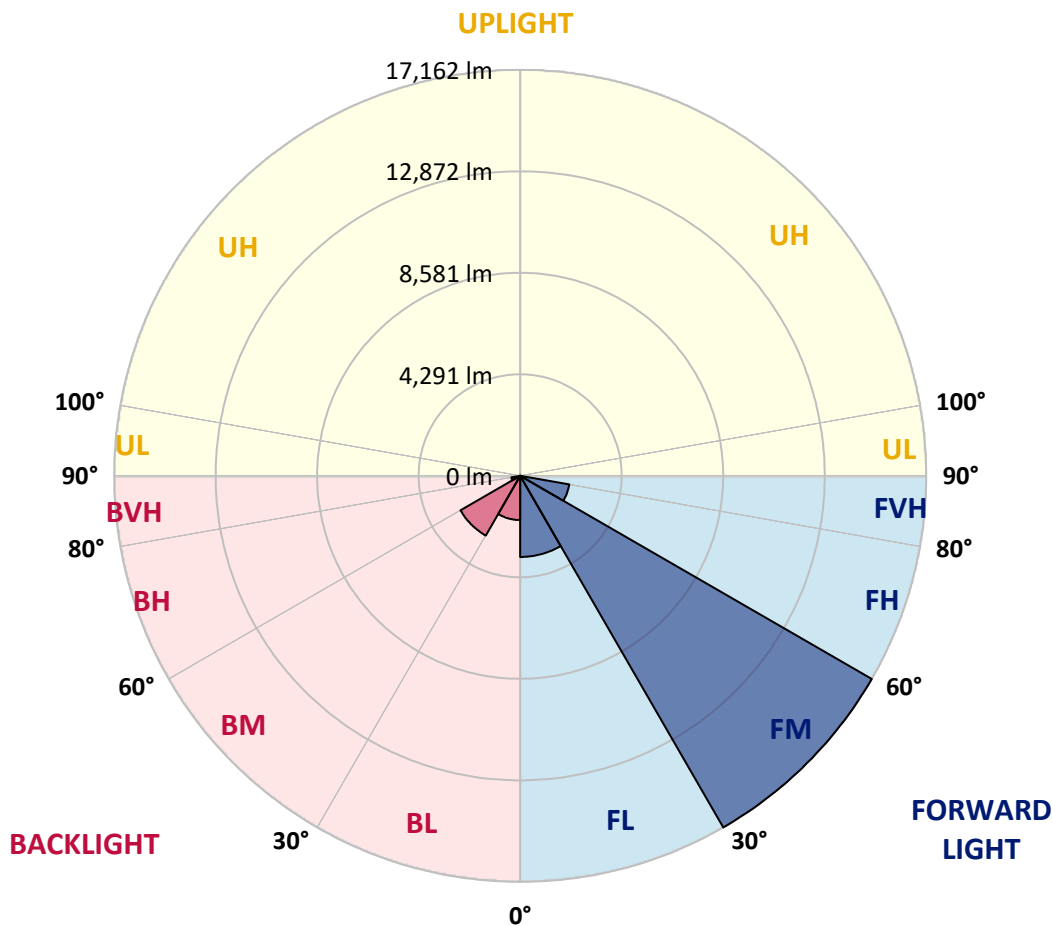


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3429.6	12.3			
FM (30°-60°)	17162.2	61.5			
FH (60°-80°)	2107.1	7.6			G2/5000
FVH (80°-90°)	18.1	0.1			G1/100
BL (0°-30°)	1869.7	6.7	B3/2500		
BM (30°-60°)	2914.9	10.4	B3/5000		
BH (60°-80°)	378.3	1.4	B1/500		G1/500
BVH (80°-90°)	19.1	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8
2.5°	6743.9	6808.7	6818.7	6898.5	6893.5	7028.2	7068.1	7073.1	7162.9	7118.0	7232.7
5°	6554.3	6519.4	6504.4	6644.1	6684.0	6803.7	6903.5	6963.4	7147.9	7212.8	7332.5
7.5°	6384.7	6384.7	6394.7	6519.4	6504.4	6659.1	6763.8	6948.4	7217.7	7272.6	7417.3
10°	6220.1	6160.3	6235.1	6364.8	6474.5	6544.4	6763.8	6938.4	7252.7	7412.3	7611.8
12.5°	6135.3	6165.3	6175.2	6270.0	6389.7	6599.2	6718.9	7008.2	7502.1	7596.8	7811.3
15°	6669.1	6609.2	6464.5	6379.7	6479.5	6579.3	6878.6	7172.8	7631.8	7766.4	8005.9
17.5°	7287.6	7237.7	7118.0	6888.5	6664.1	6848.6	7083.1	7352.4	7771.4	7970.9	8325.1
20°	8095.6	8015.8	7896.1	7447.2	7252.7	7053.1	7302.5	7621.8	8000.9	8180.4	8544.6
22.5°	9058.3	9058.3	8789.0	8245.3	7841.3	7651.7	7756.5	7941.0	8255.3	8499.7	8858.8
25°	10060.9	10031.0	9786.6	9222.9	8539.6	8315.1	8434.8	8564.5	8649.3	8784.0	9023.4
27.5°	11208.2	11033.6	10724.4	10100.8	9497.3	9063.3	9193.0	9078.3	8973.5	9043.4	9387.6
30°	11986.3	12096.1	11702.0	11103.5	10534.8	10051.0	10075.9	9976.1	9497.3	9597.1	9801.6
32.5°	12794.4	12864.2	12644.8	12315.6	11746.9	11183.3	10978.7	10894.0	10534.8	10579.7	10380.2
35°	13467.8	13602.5	13407.9	13263.3	13098.7	12644.8	12081.1	12355.5	11776.8	11667.1	11148.3
37.5°	14086.3	14046.4	14275.9	14126.2	14091.3	13772.1	13153.5	13208.4	12819.3	12794.4	12195.8
40°	14640.0	14650.0	14964.2	15034.1	14894.4	14325.7	13427.9	13861.9	14176.1	14206.0	13437.9
42.5°	15098.9	15233.6	15502.9	16066.6	15857.1	14909.4	13712.2	14186.1	15353.3	15537.8	14615.1
45°	15497.9	15772.3	16106.5	16610.3	16490.6	15737.4	14420.5	14854.5	16610.3	17094.1	15722.4
47.5°	15522.9	15882.0	16246.2	16994.4	17144.0	16181.3	15153.8	15912.0	17607.9	18131.6	16530.5
50°	15423.1	15612.7	16340.9	17154.0	17493.2	16904.6	16181.3	16799.8	18575.6	18904.8	16939.5
52.5°	14240.9	14385.6	15847.1	17303.6	18121.7	17722.6	17543.1	18036.9	19563.2	19807.6	17323.6
55°	11871.6	11846.7	13856.9	16550.4	18411.0	18934.7	18825.0	18999.6	20705.5	20925.0	17418.4
57.5°	8120.6	8574.5	10310.3	13782.0	16640.2	18650.4	18765.1	18475.8	19373.7	19458.5	15183.7
60°	4379.5	4569.1	5965.7	9198.0	12669.7	15198.7	15497.9	14974.2	14904.4	14664.9	10839.1
62.5°	1740.8	1835.6	2628.7	4554.1	6903.5	9237.9	9881.4	9666.9	9208.0	8579.5	5611.6
65°	828.0	887.9	1306.9	2129.9	3062.7	3850.8	4494.3	4693.8	3461.7	3117.5	1850.6
67.5°	563.7	608.5	952.7	1217.1	1092.4	1142.3	1486.4	1381.7	813.1	693.3	513.8
70°	429.0	458.9	763.2	828.0	488.8	344.2	384.1	359.1	334.2	339.2	334.2
72.5°	304.3	329.2	558.7	488.8	214.5	159.6	204.5	244.4	244.4	244.4	239.4
75°	184.6	209.5	324.2	189.5	84.8	84.8	129.7	164.6	174.6	179.6	169.6
77.5°	94.8	119.7	109.7	54.9	54.9	64.8	94.8	114.7	124.7	124.7	119.7
80°	20.0	20.0	20.0	29.9	54.9	69.8	94.8	104.7	119.7	119.7	109.7
82.5°	0.0	5.0	15.0	29.9	49.9	64.8	89.8	104.7	119.7	124.7	114.7
85°	0.0	5.0	10.0	20.0	34.9	39.9	34.9	29.9	29.9	29.9	29.9
87.5°	0.0	0.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	10.0	10.0
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°	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8	7172.8
2.5°	7242.7	7257.6	7232.7	7227.7	7207.8	7267.6	7123.0	7088.1	7177.8	7093.0	7113.0
5°	7337.5	7372.4	7327.5	7252.7	7142.9	6973.3	6828.7	6639.1	6549.3	6484.5	6474.5
7.5°	7407.3	7432.2	7387.3	7147.9	6818.7	6389.7	6070.5	5836.0	5651.5	5596.6	5506.8
10°	7691.6	7696.6	7472.1	6943.4	6299.9	5736.3	5247.5	4888.3	4703.8	4589.0	4539.1
12.5°	7881.2	7871.2	7417.3	6539.4	5681.4	4933.2	4374.5	3940.6	3771.0	3716.1	3681.2
15°	8120.6	8065.7	7287.6	6125.4	4883.3	4075.3	3571.5	3272.2	3257.2	3222.3	3257.2
17.5°	8310.1	8155.5	7098.0	5372.2	4120.1	3357.0	3027.8	3047.7	3087.6	3122.5	3127.5
20°	8619.4	8300.2	6664.1	4713.7	3411.8	2878.1	2873.1	2962.9	3062.7	3102.6	3142.5
22.5°	8853.8	8360.0	6200.2	4010.4	2833.2	2683.6	2768.4	2903.1	2977.9	3017.8	3077.6
25°	8938.6	8195.4	5581.7	3307.1	2553.9	2593.8	2723.5	2813.3	2908.0	2952.9	2928.0
27.5°	9023.4	8110.6	4843.4	2723.5	2404.3	2533.9	2643.7	2733.5	2763.4	2823.2	2863.2
30°	9227.9	7816.3	4180.0	2354.4	2329.4	2494.0	2573.8	2603.8	2683.6	2718.5	2718.5
32.5°	9392.5	7701.6	3476.7	2179.8	2319.5	2514.0	2524.0	2524.0	2533.9	2509.0	2499.0
35°	9731.7	7307.5	2848.2	2075.0	2314.5	2519.0	2543.9	2459.1	2229.7	2139.9	2114.9
37.5°	10150.7	7053.1	2384.3	2050.1	2349.4	2578.8	2618.7	2299.5	2000.2	1855.6	1830.6
40°	10659.5	6873.6	2080.0	2040.1	2429.2	2718.5	2598.8	2174.8	1785.7	1576.2	1566.3
42.5°	11253.1	6709.0	1875.5	2035.1	2529.0	2863.2	2578.8	2070.1	1566.3	1426.6	1446.5
45°	11727.0	6619.2	1735.8	2000.2	2563.9	2948.0	2593.8	1885.5	1476.5	1386.7	1396.7
47.5°	12096.1	6429.6	1621.1	1940.4	2558.9	2977.9	2459.1	1810.7	1431.6	1456.5	1481.5
50°	12106.1	6175.2	1476.5	1810.7	2484.1	2923.0	2304.5	1740.8	1421.6	1526.4	1576.2
52.5°	11971.4	5816.1	1321.8	1626.1	2309.5	2733.5	2164.8	1710.9	1376.7	1366.7	1426.6
55°	11492.5	5142.7	1062.5	1316.9	1950.3	2254.6	2040.1	1656.0	1242.0	1127.3	1137.3
57.5°	9287.8	3686.2	783.1	942.7	1381.7	1651.1	1840.6	1631.1	1117.3	957.7	962.7
60°	5751.2	2090.0	573.6	643.5	853.0	1002.6	1491.4	1516.4	997.6	808.1	798.1
62.5°	2952.9	1032.5	443.9	453.9	523.7	588.6	1022.6	1272.0	902.8	768.2	768.2
65°	987.6	508.8	389.1	349.2	349.2	364.1	618.5	882.9	763.2	643.5	643.5
67.5°	424.0	379.1	339.2	304.3	279.3	264.4	349.2	513.8	568.6	488.8	468.9
70°	329.2	319.2	294.3	254.4	219.5	199.5	204.5	264.4	324.2	314.2	304.3
72.5°	244.4	244.4	234.4	199.5	169.6	144.7	134.7	139.7	154.6	159.6	164.6
75°	169.6	174.6	174.6	154.6	124.7	104.7	89.8	74.8	59.9	49.9	44.9
77.5°	114.7	119.7	129.7	114.7	94.8	69.8	54.9	39.9	24.9	10.0	10.0
80°	99.8	114.7	124.7	114.7	99.8	74.8	54.9	29.9	15.0	0.0	0.0
82.5°	104.7	114.7	129.7	109.7	94.8	69.8	54.9	34.9	15.0	5.0	0.0
85°	24.9	24.9	29.9	34.9	44.9	49.9	39.9	24.9	15.0	5.0	0.0
87.5°	10.0	10.0	10.0	10.0	10.0	5.0	5.0	5.0	5.0	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)