

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: P531933

Luminaire Tested: **GALN-SA7B-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23872 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

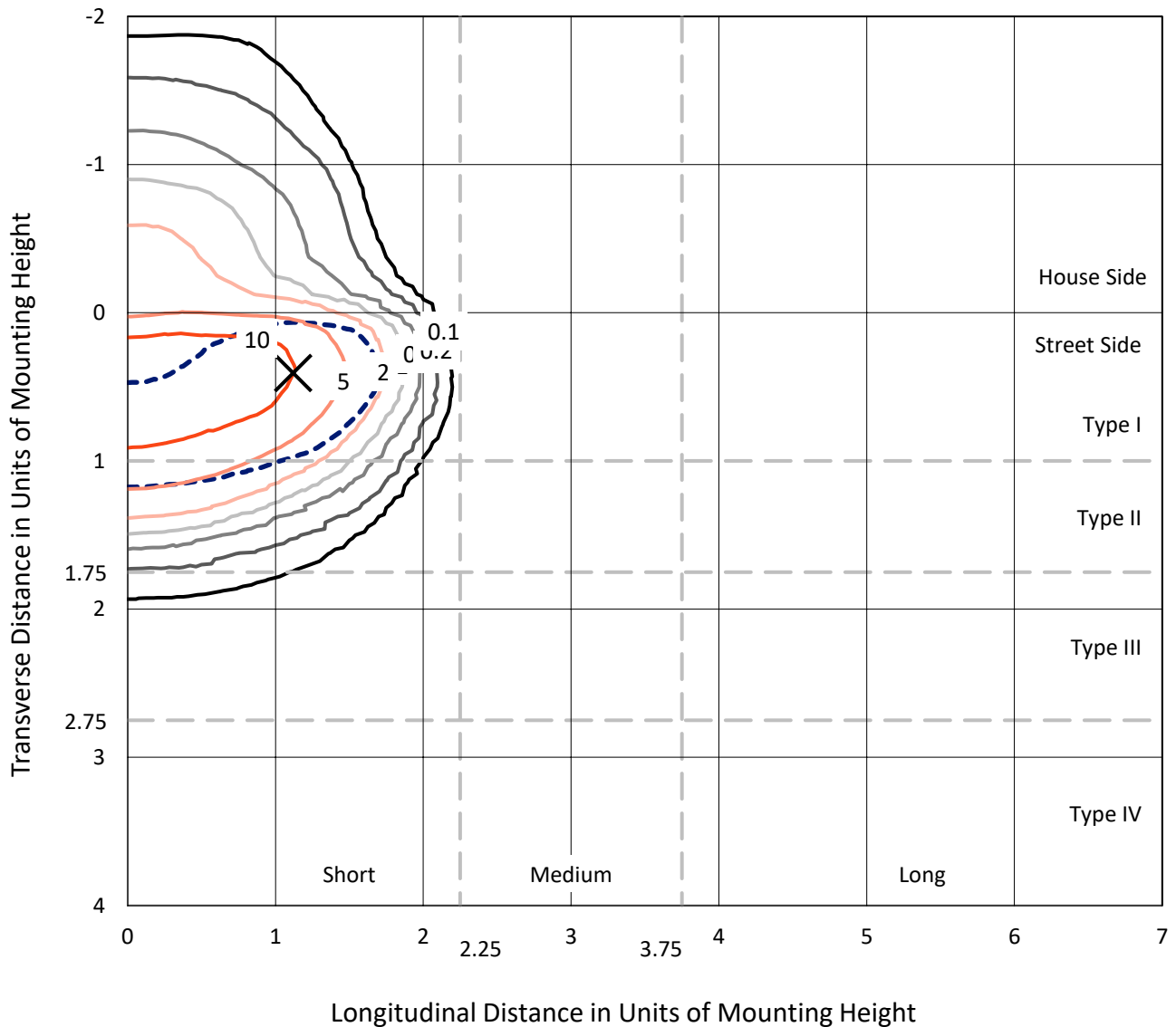
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

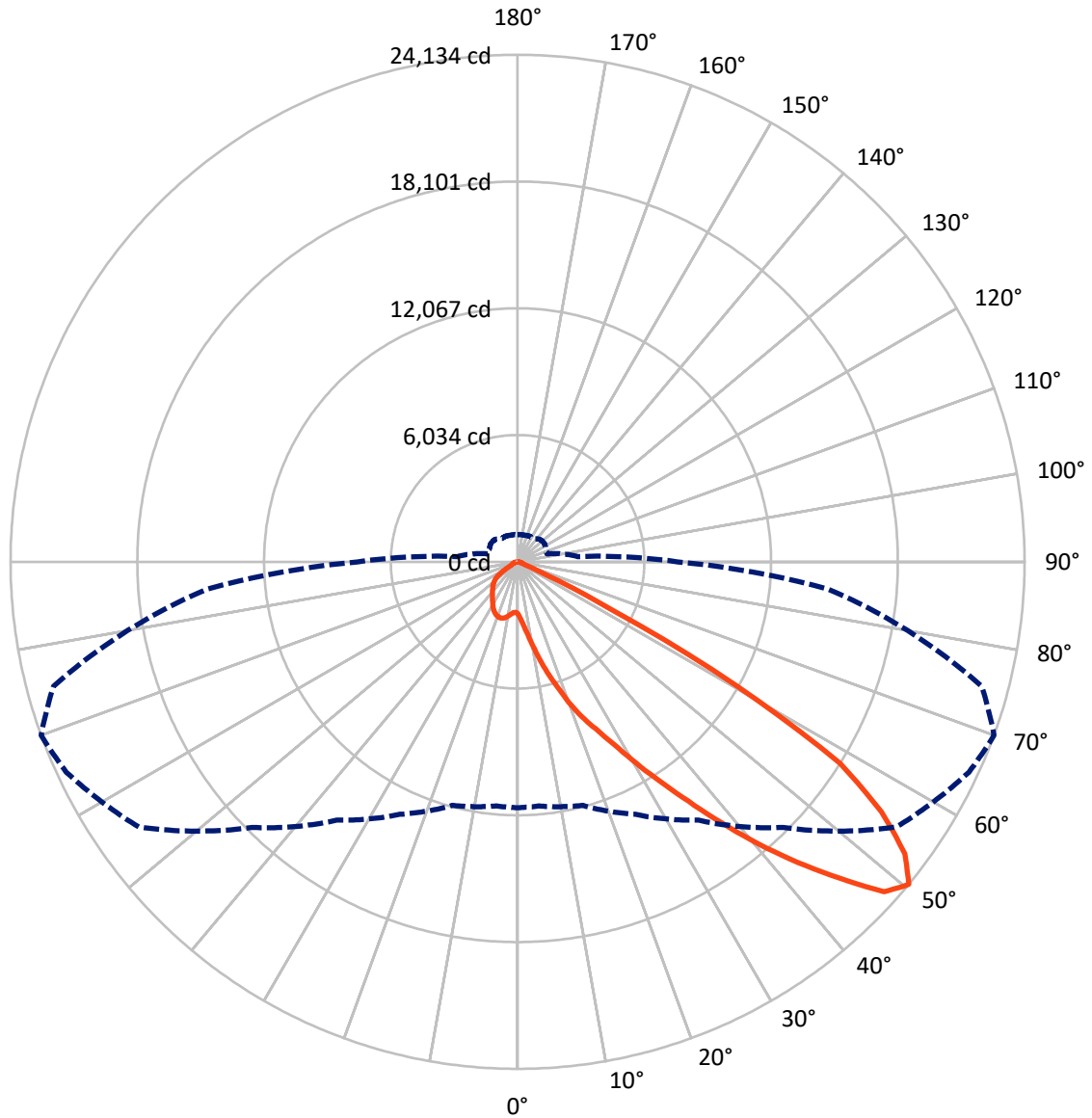
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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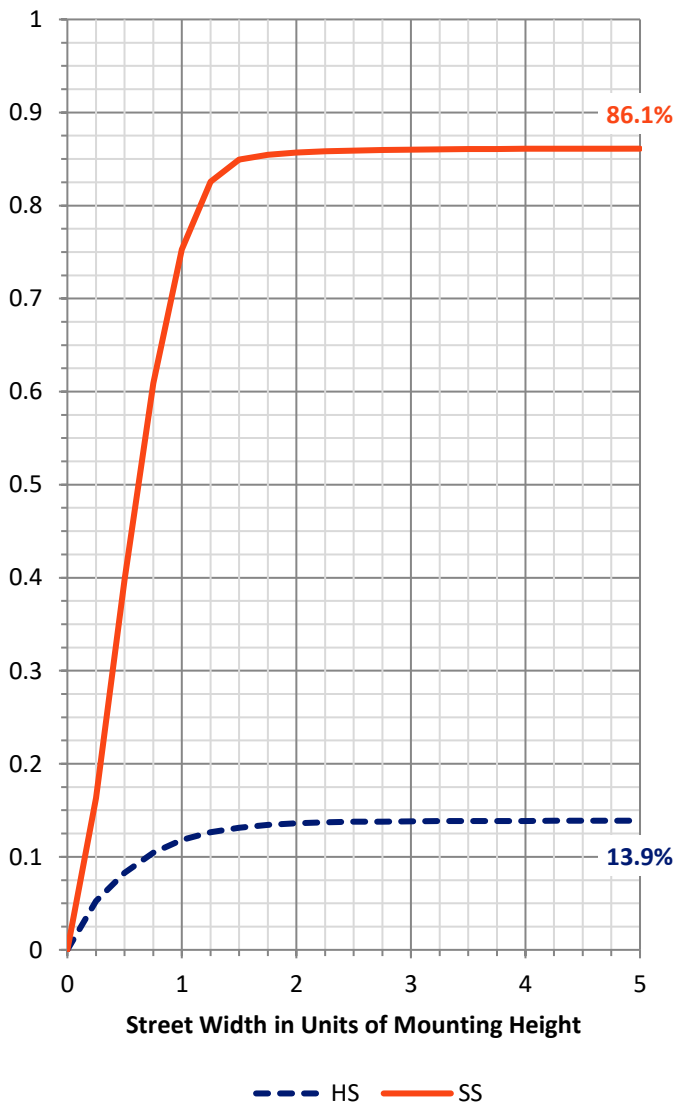
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3333.9	0.0	3333.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20538.1	0.0	20538.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	23872.0	0.0	23872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.5	1.3
10°-20°	1390.9	5.8
20°-30°	2917.8	12.2
30°-40°	5029.3	21.1
40°-50°	7350.2	30.8
50°-60°	5724.6	24.0
60°-70°	969.9	4.1
70°-80°	133.2	0.6
80°-90°	34.5	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°	23872.0	100.0
0°-180°	23872.0	100.0

Coefficient of Utilization

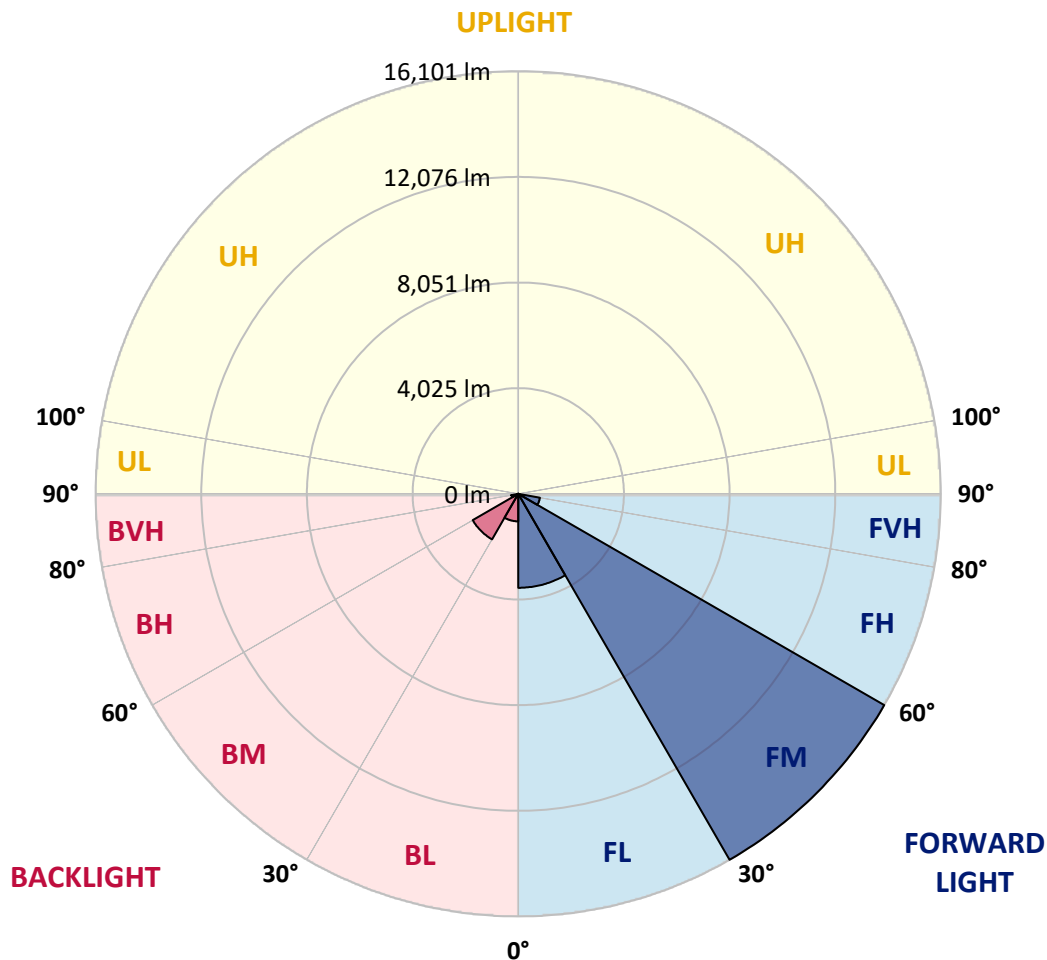


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3581.1	15.0			
FM (30°-60°)	16101.3	67.4			
FH (60°-80°)	839.8	3.5			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1049.1	4.4	B3/2500		
BM (30°-60°)	2002.9	8.4	B2/2500		
BH (60°-80°)	263.3	1.1	B1/500		G1/500
BVH (80°-90°)	18.6	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7
2.5°	3238.0	3214.5	3163.4	3069.2	3030.0	2935.8	2880.9	2774.9	2708.2	2633.6	2551.2
5°	4560.7	4439.0	4364.5	4258.5	3948.4	3756.1	3438.2	3167.4	3041.8	2904.4	2716.0
7.5°	5926.6	5848.1	5746.0	5518.4	5306.4	4906.1	4360.5	3764.0	3508.8	3273.3	2900.5
10°	7056.9	6837.1	6825.4	6656.6	6425.0	5946.2	5290.7	4548.9	4093.6	3748.3	3163.4
12.5°	7845.8	7645.6	7735.9	7716.3	7500.4	7060.8	6303.3	5322.1	4847.2	4309.5	3434.3
15°	8564.1	8481.6	8454.2	8430.6	8344.3	8018.5	7339.5	6264.1	5577.2	4929.6	3740.4
17.5°	9266.6	9054.7	9156.7	9176.3	9168.5	8874.1	8238.3	7159.0	6350.4	5585.1	4062.2
20°	9890.7	9910.3	9772.9	9745.5	9721.9	9710.1	9090.0	8046.0	7300.3	6271.9	4482.2
22.5°	10691.4	10554.0	10675.7	10597.2	10444.1	10349.9	9875.0	8831.0	8124.5	7100.1	4910.0
25°	11637.2	11747.1	11460.6	11429.2	11260.5	10934.7	10506.9	9710.1	8917.3	7869.4	5373.1
27.5°	12802.9	12610.6	12536.0	12363.3	12057.2	11919.8	11417.5	10616.8	9875.0	8677.9	5820.6
30°	13803.8	13752.8	13379.9	13175.8	12908.9	12905.0	12202.4	11845.3	11123.1	9945.6	6436.8
32.5°	14620.1	14396.4	14259.1	14117.8	13901.9	13960.8	13368.1	13179.7	12453.6	11123.1	7162.9
35°	15165.7	15004.8	14922.4	14706.5	14643.7	14906.7	14659.4	14580.9	13984.3	12779.4	8014.6
37.5°	15338.4	15389.4	15373.7	15102.9	15236.4	15946.8	16264.7	16060.6	15746.6	14525.9	8936.9
40°	15491.5	15526.8	15448.3	15766.2	16146.9	16955.4	18105.4	17767.9	17650.1	16296.1	10220.4
42.5°	15577.8	15550.3	15550.3	16099.8	16676.8	18301.7	19883.4	19659.7	19569.4	18180.0	11704.0
45°	15205.0	14938.1	15224.6	15970.3	17132.1	18965.0	21304.2	21614.3	21484.7	20421.1	13438.8
47.5°	13811.6	13976.5	14137.4	15134.3	16578.7	18760.9	22175.5	23231.3	23470.7	22305.0	14577.0
50°	11704.0	11668.6	12002.3	13258.2	15012.6	17881.7	22006.8	23698.4	24134.0	22870.2	14816.4
52.5°	8513.0	8772.1	9133.2	10381.3	12461.5	15605.3	19828.5	22493.4	23074.3	22175.5	14659.4
55°	4957.1	4670.6	5483.0	6538.8	8501.3	11770.7	16763.1	19938.3	21013.8	20911.7	13866.6
57.5°	1986.0	1923.2	2201.9	2967.2	4435.1	7296.3	12190.7	16382.4	18105.4	19153.4	12186.7
60°	871.3	851.7	1000.8	1208.9	1813.3	3363.6	6668.4	10189.0	11986.6	13383.8	8387.5
62.5°	628.0	620.1	694.7	769.3	957.7	1464.0	2802.4	4105.4	5118.0	6181.7	3756.1
65°	506.3	525.9	577.0	616.2	706.5	812.4	989.1	1142.1	1401.2	1452.2	828.1
67.5°	412.1	427.8	474.9	518.1	533.8	439.6	455.3	400.3	400.3	357.2	286.5
70°	302.2	306.1	361.1	412.1	329.7	176.6	310.1	310.1	278.7	266.9	243.3
72.5°	223.7	227.6	270.8	255.1	129.5	109.9	227.6	251.2	227.6	215.9	196.2
75°	164.8	168.8	141.3	58.9	54.9	70.6	133.4	172.7	164.8	160.9	149.1
77.5°	31.4	23.5	19.6	27.5	39.2	58.9	86.3	106.0	109.9	117.7	109.9
80°	3.9	3.9	11.8	23.5	43.2	62.8	90.3	102.0	106.0	109.9	102.0
82.5°	0.0	3.9	11.8	23.5	43.2	58.9	78.5	90.3	98.1	102.0	98.1
85°	0.0	3.9	7.8	19.6	35.3	43.2	39.2	27.5	23.5	27.5	19.6
87.5°	0.0	0.0	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8
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°	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7	2472.7
2.5°	2504.1	2488.4	2433.4	2374.5	2323.5	2347.1	2323.5	2303.9	2311.7	2303.9	2296.0
5°	2641.4	2570.8	2453.0	2402.0	2358.8	2354.9	2343.1	2339.2	2343.1	2343.1	2307.8
7.5°	2771.0	2657.1	2531.5	2476.6	2425.6	2429.5	2402.0	2402.0	2398.1	2378.5	2370.6
10°	2967.2	2814.1	2653.2	2555.1	2492.3	2480.5	2453.0	2425.6	2425.6	2425.6	2386.3
12.5°	3183.1	2990.8	2771.0	2657.1	2582.6	2523.7	2480.5	2472.7	2429.5	2421.6	2402.0
15°	3371.5	3128.1	2849.5	2692.5	2598.3	2519.8	2453.0	2409.9	2390.2	2378.5	2362.8
17.5°	3555.9	3245.9	2892.6	2692.5	2590.4	2500.1	2429.5	2390.2	2343.1	2351.0	2319.6
20°	3803.2	3371.5	2904.4	2641.4	2515.8	2429.5	2335.3	2315.7	2288.2	2264.7	2272.5
22.5°	4042.6	3461.7	2869.1	2578.6	2398.1	2296.0	2249.0	2225.4	2213.6	2194.0	2166.5
25°	4258.5	3559.9	2814.1	2464.8	2272.5	2197.9	2154.8	2150.8	2123.4	2123.4	2072.3
27.5°	4478.3	3595.2	2719.9	2331.4	2162.6	2119.4	2099.8	2092.0	2080.2	2052.7	2017.4
30°	4729.5	3607.0	2582.6	2194.0	2064.5	2017.4	2044.9	2064.5	2013.5	1962.4	1978.1
32.5°	4937.5	3579.5	2417.7	2064.5	1993.8	1970.3	2025.2	2044.9	1986.0	1931.0	1903.6
35°	5188.7	3512.8	2256.8	1962.4	1923.2	1970.3	2017.4	2017.4	1899.6	1832.9	1817.2
37.5°	5569.4	3438.2	2107.7	1876.1	1848.6	1946.7	2009.5	1966.4	1781.9	1699.5	1679.8
40°	5977.6	3391.1	1962.4	1789.7	1809.4	1907.5	1942.8	1809.4	1621.0	1569.9	1554.2
42.5°	6570.2	3296.9	1832.9	1715.2	1774.0	1852.5	1852.5	1613.1	1542.5	1515.0	1511.1
45°	7308.1	3230.2	1719.1	1652.4	1723.0	1742.6	1679.8	1511.1	1460.1	1452.2	1456.1
47.5°	7669.2	3100.6	1601.3	1577.8	1628.8	1632.7	1467.9	1428.7	1385.5	1373.7	1365.9
50°	7614.3	2869.1	1448.3	1479.7	1550.3	1511.1	1338.4	1346.2	1307.0	1303.1	1283.4
52.5°	7229.6	2504.1	1295.2	1369.8	1448.3	1334.5	1232.4	1224.6	1224.6	1173.5	1153.9
55°	6409.3	2017.4	1110.7	1204.9	1299.1	1122.5	1095.0	1087.2	1067.6	1020.5	1008.7
57.5°	5074.9	1479.7	836.0	938.0	1102.9	953.7	949.8	914.5	863.5	828.1	828.1
60°	3018.2	851.7	525.9	573.0	730.0	773.2	859.5	843.8	757.5	702.6	686.9
62.5°	1377.6	439.6	333.6	341.5	392.5	502.4	675.1	781.0	659.4	565.2	557.3
65°	463.1	325.8	274.7	263.0	270.8	302.2	404.3	553.4	525.9	435.7	420.0
67.5°	282.6	290.4	259.0	239.4	239.4	235.5	231.6	251.2	310.1	302.2	306.1
70°	243.3	266.9	239.4	215.9	208.0	196.2	164.8	137.4	117.7	137.4	145.2
72.5°	196.2	211.9	204.1	184.5	164.8	149.1	117.7	90.3	66.7	58.9	58.9
75°	145.2	157.0	164.8	141.3	125.6	106.0	86.3	58.9	35.3	23.5	23.5
77.5°	106.0	117.7	121.7	109.9	94.2	74.6	54.9	39.2	19.6	7.8	7.8
80°	90.3	106.0	117.7	109.9	98.1	70.6	51.0	27.5	15.7	3.9	3.9
82.5°	86.3	106.0	117.7	106.0	94.2	66.7	51.0	31.4	11.8	3.9	3.9
85°	19.6	27.5	35.3	43.2	51.0	51.0	39.2	23.5	11.8	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	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)