

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: P530529

Luminaire Tested: **GALN-SA5D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530529
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-SA5D-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 23334 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

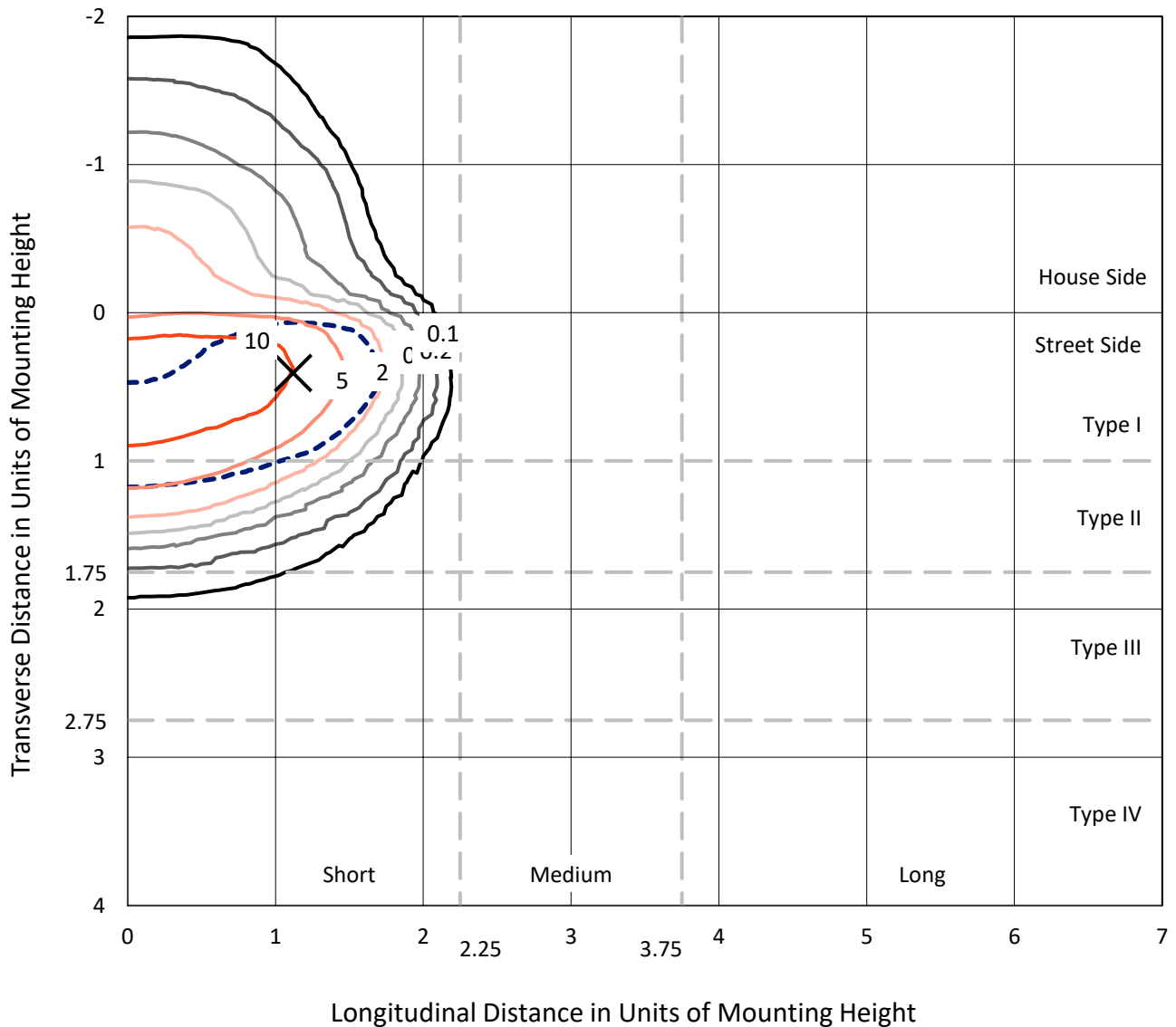
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

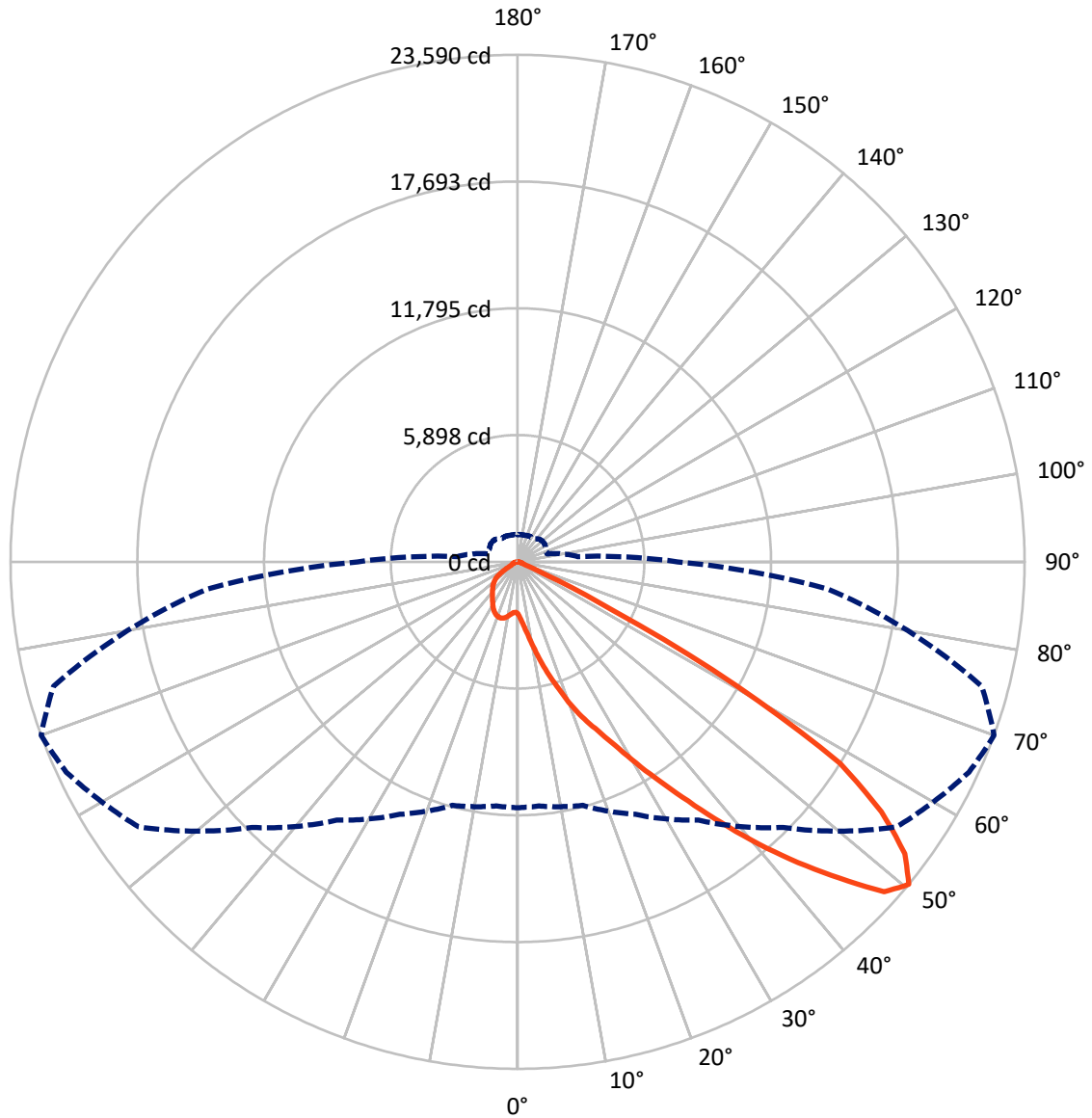
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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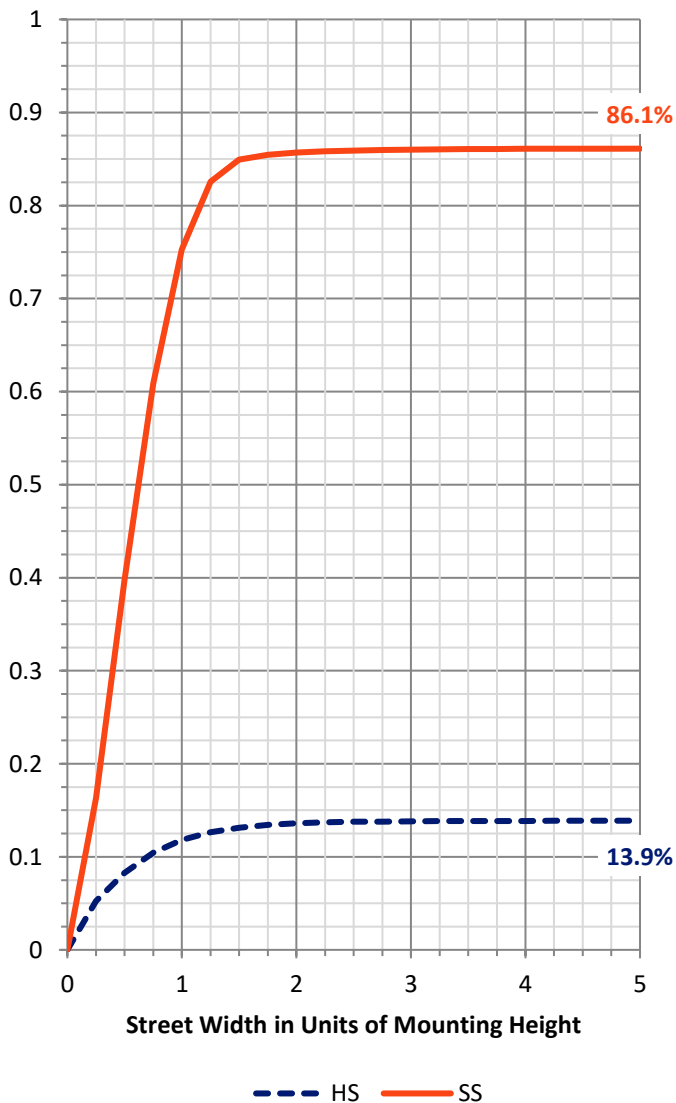
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3258.8	0.0	3258.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	20075.3	0.0	20075.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	23334.0	0.0	23334.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	1.3
10°-20°	1359.5	5.8
20°-30°	2852.0	12.2
30°-40°	4915.9	21.1
40°-50°	7184.6	30.8
50°-60°	5595.6	24.0
60°-70°	948.1	4.1
70°-80°	130.2	0.6
80°-90°	33.7	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°	23334.0	100.0
0°-180°	23334.0	100.0

Coefficient of Utilization



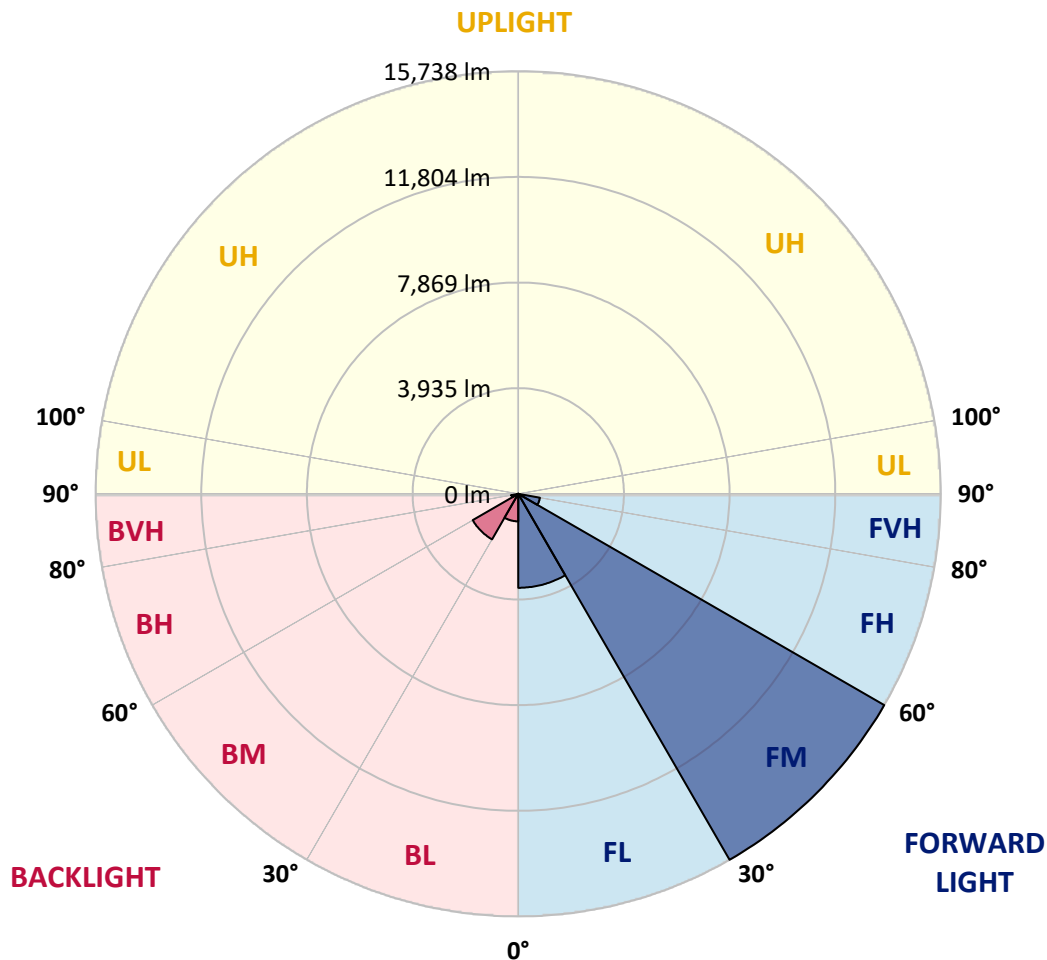
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3500.4	15.0			
FM (30°-60°)	15738.4	67.4			
FH (60°-80°)	820.9	3.5			G1/1800
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1025.5	4.4	B3/2500		
BM (30°-60°)	1957.7	8.4	B2/2500		
BH (60°-80°)	257.4	1.1	B1/500		G1/500
BVH (80°-90°)	18.1	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9
2.5°	3165.0	3142.0	3092.2	3000.1	2961.7	2869.6	2815.9	2712.3	2647.1	2574.2	2493.7
5°	4457.9	4339.0	4266.1	4162.5	3859.4	3671.5	3360.7	3096.0	2973.2	2838.9	2654.8
7.5°	5793.0	5716.3	5616.5	5394.0	5186.8	4795.5	4262.3	3679.1	3429.8	3199.6	2835.1
10°	6897.9	6683.0	6671.5	6506.6	6280.2	5812.2	5171.5	4446.4	4001.4	3663.8	3092.2
12.5°	7669.0	7473.3	7561.6	7542.4	7331.4	6901.7	6161.3	5202.2	4738.0	4212.4	3356.9
15°	8371.1	8290.5	8263.6	8240.6	8156.2	7837.8	7174.1	6122.9	5451.5	4818.5	3656.1
17.5°	9057.8	8850.6	8950.4	8969.5	8961.9	8674.1	8052.6	6997.6	6207.3	5459.2	3970.7
20°	9667.8	9687.0	9552.7	9525.8	9502.8	9491.3	8885.1	7864.7	7135.7	6130.6	4381.2
22.5°	10450.4	10316.1	10435.1	10358.3	10208.7	10116.6	9652.4	8631.9	7941.4	6940.1	4799.4
25°	11375.0	11482.4	11202.3	11171.6	11006.7	10688.3	10270.1	9491.3	8716.3	7692.0	5252.1
27.5°	12514.4	12326.4	12253.5	12084.7	11785.5	11651.2	11160.1	10377.5	9652.4	8482.3	5689.4
30°	13492.7	13442.8	13078.3	12878.9	12618.0	12614.1	11927.4	11578.3	10872.4	9721.5	6291.7
32.5°	14290.7	14072.0	13937.7	13799.6	13588.6	13646.1	13066.8	12882.7	12173.0	10872.4	7001.5
35°	14823.9	14666.6	14586.1	14375.1	14313.7	14570.7	14329.0	14252.3	13669.2	12491.4	7834.0
37.5°	14992.7	15042.6	15027.2	14762.5	14893.0	15587.4	15898.1	15698.6	15391.7	14198.6	8735.5
40°	15142.3	15176.9	15100.1	15410.9	15783.0	16573.3	17697.4	17367.5	17252.4	15928.8	9990.0
42.5°	15226.7	15199.9	15199.9	15737.0	16300.9	17889.2	19435.3	19216.6	19128.4	17770.3	11440.2
45°	14862.3	14601.4	14881.5	15610.4	16746.0	18537.6	20824.1	21127.2	21000.5	19960.9	13135.9
47.5°	13500.4	13661.5	13818.8	14793.2	16205.0	18338.1	21675.8	22707.8	22941.8	21802.4	14248.5
50°	11440.2	11405.7	11731.8	12959.4	14674.3	17478.7	21510.8	23164.3	23590.1	22354.8	14482.5
52.5°	8321.2	8574.4	8927.3	10147.3	12180.6	15253.6	19381.6	21986.5	22554.3	21675.8	14329.0
55°	4845.4	4565.3	5359.5	6391.5	8309.7	11505.4	16385.3	19489.0	20540.2	20440.4	13554.1
57.5°	1941.2	1879.8	2152.2	2900.3	4335.2	7131.9	11915.9	16013.2	17697.4	18721.7	11912.1
60°	851.7	832.5	978.3	1181.6	1772.4	3287.8	6518.1	9959.3	11716.4	13082.2	8198.4
62.5°	613.8	606.2	679.0	751.9	936.1	1431.0	2739.2	4012.9	5002.7	6042.4	3671.5
65°	494.9	514.1	564.0	602.3	690.6	794.1	966.8	1116.4	1369.6	1419.5	809.5
67.5°	402.8	418.2	464.2	506.4	521.8	429.7	445.0	391.3	391.3	349.1	280.1
70°	295.4	299.2	353.0	402.8	322.3	172.6	303.1	303.1	272.4	260.9	237.9
72.5°	218.7	222.5	264.7	249.4	126.6	107.4	222.5	245.5	222.5	211.0	191.8
75°	161.1	165.0	138.1	57.5	53.7	69.1	130.4	168.8	161.1	157.3	145.8
77.5°	30.7	23.0	19.2	26.9	38.4	57.5	84.4	103.6	107.4	115.1	107.4
80°	3.8	3.8	11.5	23.0	42.2	61.4	88.2	99.7	103.6	107.4	99.7
82.5°	0.0	3.8	11.5	23.0	42.2	57.5	76.7	88.2	95.9	99.7	95.9
85°	0.0	3.8	7.7	19.2	34.5	42.2	38.4	26.9	23.0	26.9	19.2
87.5°	0.0	0.0	3.8	3.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7
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°	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9	2416.9
2.5°	2447.6	2432.3	2378.6	2321.0	2271.2	2294.2	2271.2	2252.0	2259.6	2252.0	2244.3
5°	2581.9	2512.9	2397.8	2347.9	2305.7	2301.9	2290.3	2286.5	2290.3	2290.3	2255.8
7.5°	2708.5	2597.3	2474.5	2420.8	2370.9	2374.7	2347.9	2347.9	2344.1	2324.9	2317.2
10°	2900.3	2750.7	2593.4	2497.5	2436.1	2424.6	2397.8	2370.9	2370.9	2370.9	2332.5
12.5°	3111.3	2923.4	2708.5	2597.3	2524.4	2466.8	2424.6	2416.9	2374.7	2367.1	2347.9
15°	3295.5	3057.6	2785.2	2631.8	2539.7	2463.0	2397.8	2355.6	2336.4	2324.9	2309.5
17.5°	3475.8	3172.7	2827.4	2631.8	2532.0	2443.8	2374.7	2336.4	2290.3	2298.0	2267.3
20°	3717.5	3295.5	2838.9	2581.9	2459.1	2374.7	2282.7	2263.5	2236.6	2213.6	2221.3
22.5°	3951.5	3383.7	2804.4	2520.5	2344.1	2244.3	2198.3	2175.2	2163.7	2144.6	2117.7
25°	4162.5	3479.6	2750.7	2409.3	2221.3	2148.4	2106.2	2102.4	2075.5	2075.5	2025.6
27.5°	4377.4	3514.2	2658.6	2278.8	2113.9	2071.7	2052.5	2044.8	2033.3	2006.4	1971.9
30°	4622.9	3525.7	2524.4	2144.6	2018.0	1971.9	1998.8	2018.0	1968.1	1918.2	1933.6
32.5°	4826.2	3498.8	2363.2	2018.0	1948.9	1925.9	1979.6	1998.8	1941.2	1887.5	1860.7
35°	5071.7	3433.6	2205.9	1918.2	1879.8	1925.9	1971.9	1971.9	1856.8	1791.6	1776.3
37.5°	5443.9	3360.7	2060.2	1833.8	1807.0	1902.9	1964.2	1922.0	1741.7	1661.2	1642.0
40°	5842.9	3314.7	1918.2	1749.4	1768.6	1864.5	1899.0	1768.6	1584.4	1534.6	1519.2
42.5°	6422.2	3222.6	1791.6	1676.5	1734.1	1810.8	1810.8	1576.8	1507.7	1480.9	1477.0
45°	7143.4	3157.4	1680.4	1615.1	1684.2	1703.4	1642.0	1477.0	1427.1	1419.5	1423.3
47.5°	7496.4	3030.8	1565.3	1542.2	1592.1	1595.9	1434.8	1396.5	1354.3	1342.7	1335.1
50°	7442.6	2804.4	1415.6	1446.3	1515.4	1477.0	1308.2	1315.9	1277.5	1273.7	1254.5
52.5°	7066.7	2447.6	1266.0	1338.9	1415.6	1304.4	1204.6	1197.0	1197.0	1147.1	1127.9
55°	6264.9	1971.9	1085.7	1177.8	1269.9	1097.2	1070.4	1062.7	1043.5	997.5	986.0
57.5°	4960.5	1446.3	817.2	916.9	1078.0	932.2	928.4	893.9	844.0	809.5	809.5
60°	2950.2	832.5	514.1	560.1	713.6	755.8	840.2	824.8	740.4	686.7	671.4
62.5°	1346.6	429.7	326.1	333.8	383.6	491.1	659.9	763.4	644.5	552.4	544.8
65°	452.7	318.4	268.5	257.0	264.7	295.4	395.2	540.9	514.1	425.8	410.5
67.5°	276.2	283.9	253.2	234.0	234.0	230.2	226.3	245.5	303.1	295.4	299.2
70°	237.9	260.9	234.0	211.0	203.3	191.8	161.1	134.3	115.1	134.3	141.9
72.5°	191.8	207.2	199.5	180.3	161.1	145.8	115.1	88.2	65.2	57.5	57.5
75°	141.9	153.5	161.1	138.1	122.8	103.6	84.4	57.5	34.5	23.0	23.0
77.5°	103.6	115.1	118.9	107.4	92.1	72.9	53.7	38.4	19.2	7.7	7.7
80°	88.2	103.6	115.1	107.4	95.9	69.1	49.9	26.9	15.3	3.8	3.8
82.5°	84.4	103.6	115.1	103.6	92.1	65.2	49.9	30.7	11.5	3.8	3.8
85°	19.2	26.9	34.5	42.2	49.9	49.9	38.4	23.0	11.5	3.8	3.8
87.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	3.8	3.8	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)