

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: P531049

Luminaire Tested: **GALN-SA6B-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531049
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-SA6B-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 22316 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

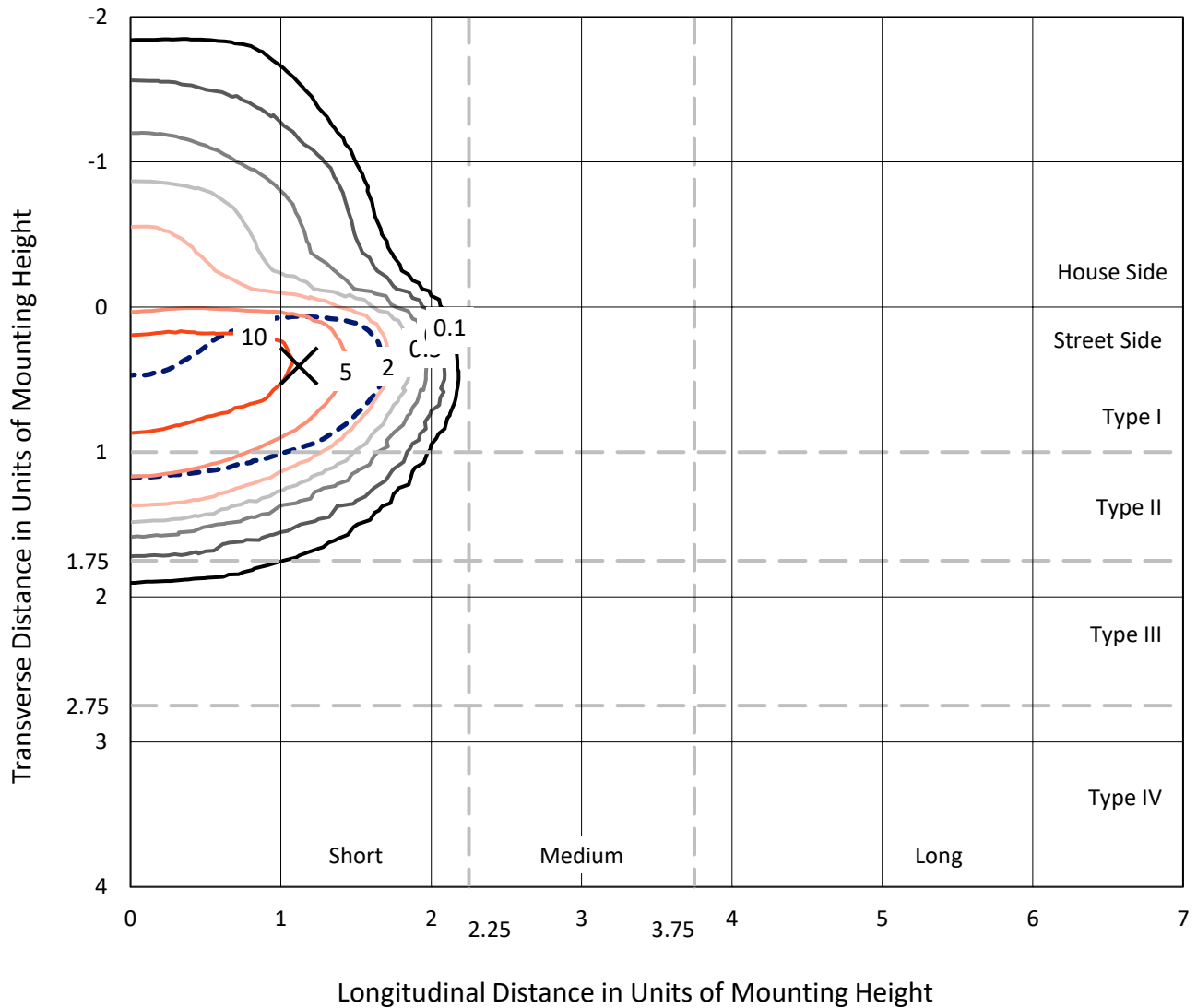
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531049
 CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

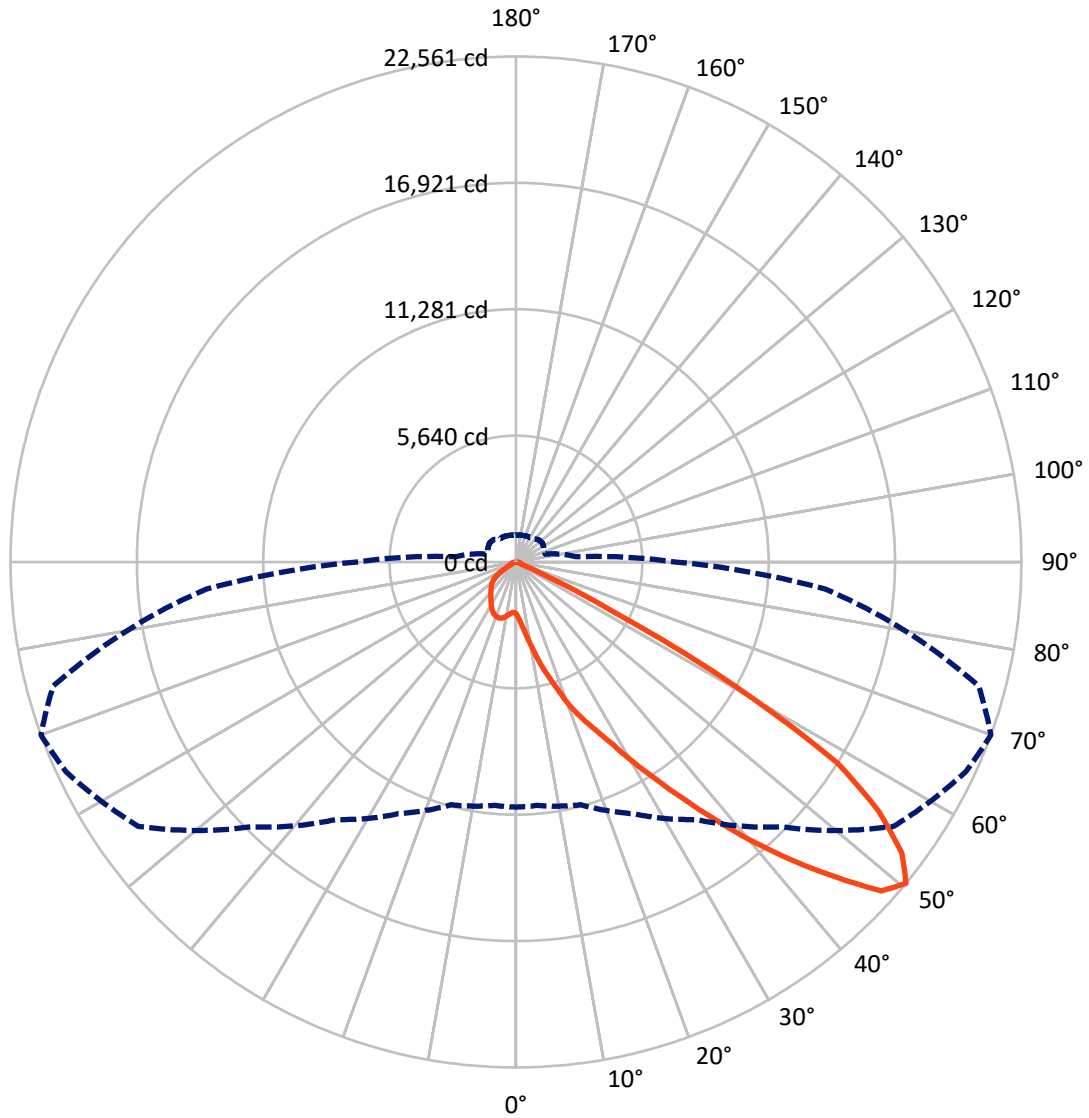
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type I - Short - N/A

REPORT NUMBER: P531049
CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P531049
 CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSBK

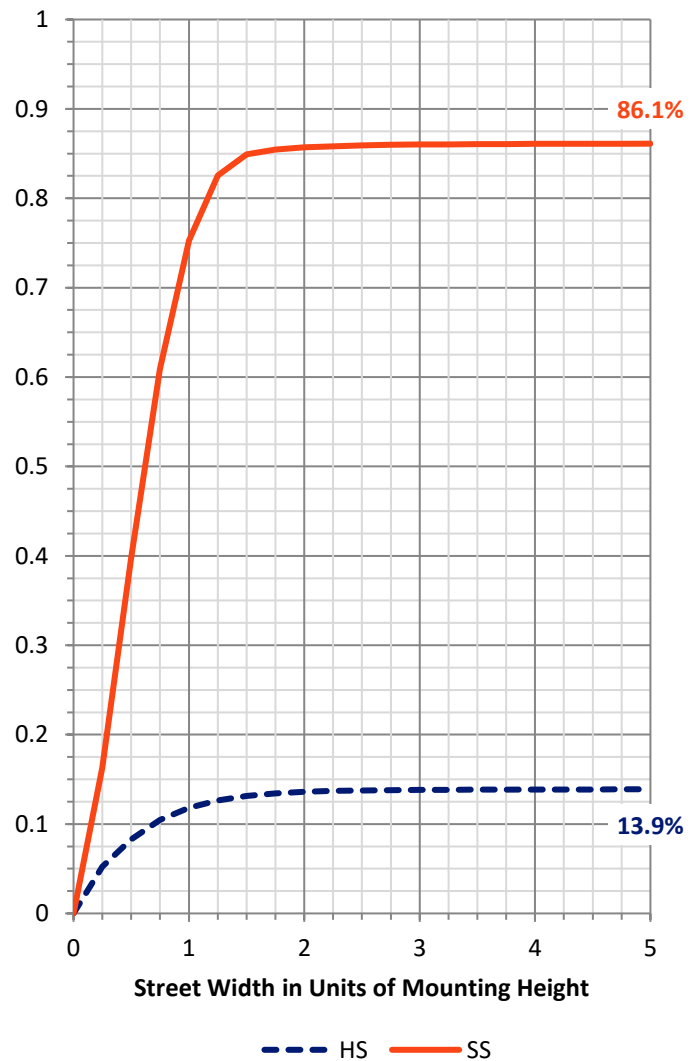
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3116.6	0.0	3116.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19199.4	0.0	19199.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	22316.0	0.0	22316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.3
10°-20°	1300.2	5.8
20°-30°	2727.6	12.2
30°-40°	4701.5	21.1
40°-50°	6871.1	30.8
50°-60°	5351.5	24.0
60°-70°	906.7	4.1
70°-80°	124.6	0.6
80°-90°	32.3	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°	22316.0	100.0
0°-180°	22316.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531049

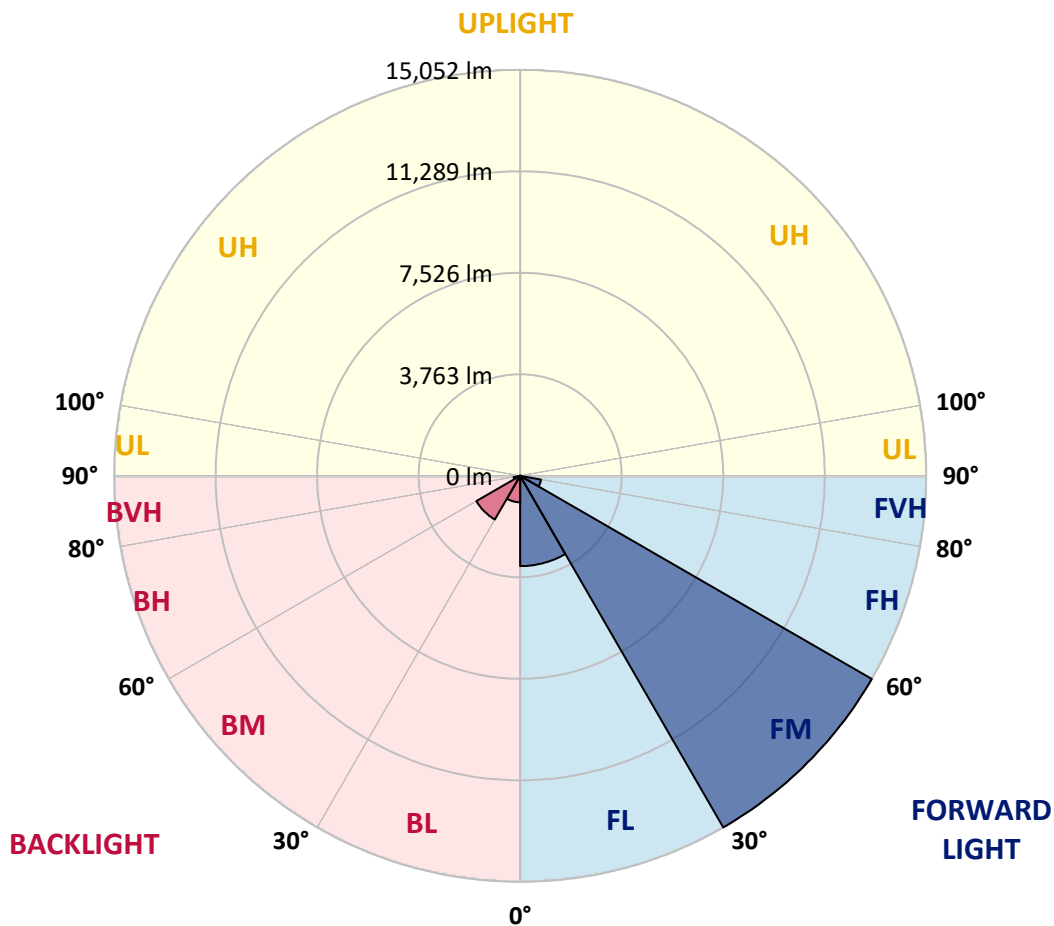
CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3347.7	15.0			
FM (30°-60°)	15051.8	67.4			
FH (60°-80°)	785.1	3.5			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	980.7	4.4	B2/1000		
BM (30°-60°)	1872.3	8.4	B2/2500		
BH (60°-80°)	246.2	1.1	B1/500		G1/500
BVH (80°-90°)	17.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





REPORT NUMBER: P531049

CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5
2.5°	3027.0	3004.9	2957.3	2869.2	2832.5	2744.4	2693.1	2594.0	2531.6	2461.9	2384.9
5°	4263.4	4149.7	4080.0	3980.9	3691.1	3511.3	3214.1	2960.9	2843.5	2715.1	2539.0
7.5°	5540.3	5466.9	5371.5	5158.7	4960.5	4586.3	4076.3	3518.6	3280.1	3060.0	2711.4
10°	6596.9	6391.5	6380.5	6222.7	6006.2	5558.6	4945.9	4252.4	3826.8	3503.9	2957.3
12.5°	7334.4	7147.3	7231.7	7213.3	7011.5	6600.6	5892.5	4975.2	4531.3	4028.6	3210.4
15°	8005.9	7928.8	7903.1	7881.1	7800.4	7495.9	6861.1	5855.8	5213.7	4608.3	3496.6
17.5°	8662.6	8464.5	8559.9	8578.2	8570.9	8295.7	7701.3	6692.3	5936.5	5221.1	3797.5
20°	9246.0	9264.3	9135.9	9110.2	9088.2	9077.2	8497.5	7521.5	6824.4	5863.1	4190.0
22.5°	9994.5	9866.1	9979.8	9906.4	9763.3	9675.3	9231.3	8255.4	7594.9	6637.3	4590.0
25°	10878.7	10981.5	10713.6	10684.3	10526.5	10222.0	9822.0	9077.2	8336.1	7356.4	5022.9
27.5°	11968.4	11788.6	11718.9	11557.5	11271.3	11142.9	10673.3	9924.8	9231.3	8112.3	5441.2
30°	12904.0	12856.3	12507.8	12317.0	12067.5	12063.8	11407.1	11073.2	10398.1	9297.4	6017.2
32.5°	13667.2	13458.1	13329.6	13197.6	12995.8	13050.8	12496.8	12320.7	11641.9	10398.1	6696.0
35°	14177.2	14026.8	13949.7	13747.9	13689.2	13935.0	13703.9	13630.5	13072.8	11946.4	7492.2
37.5°	14338.6	14386.3	14371.6	14118.5	14243.2	14907.3	15204.5	15013.7	14720.2	13579.1	8354.4
40°	14481.7	14514.7	14441.4	14738.6	15094.4	15850.3	16925.3	16609.8	16499.7	15233.9	9554.2
42.5°	14562.4	14536.8	14536.8	15050.4	15589.8	17108.8	18587.4	18378.2	18293.9	16995.0	10941.1
45°	14213.9	13964.4	14232.2	14929.3	16015.4	17728.8	19915.6	20205.4	20084.4	19090.0	12562.8
47.5°	12911.4	13065.5	13215.9	14147.8	15498.0	17538.0	20730.1	21717.1	21940.9	20851.2	13626.8
50°	10941.1	10908.1	11219.9	12394.0	14034.1	16716.2	20572.3	22153.7	22561.0	21379.5	13850.6
52.5°	7958.2	8200.3	8537.9	9704.6	11649.2	14588.1	18536.0	21027.3	21570.3	20730.1	13703.9
55°	4634.0	4366.2	5125.7	6112.6	7947.2	11003.5	15670.5	18638.7	19644.1	19548.7	12962.7
57.5°	1856.5	1797.8	2058.3	2773.8	4146.0	6820.8	11396.1	15314.6	16925.3	17904.9	11392.4
60°	814.5	796.2	935.6	1130.1	1695.1	3144.4	6233.7	9524.8	11205.3	12511.4	7840.7
62.5°	587.0	579.7	649.4	719.1	895.2	1368.6	2619.7	3837.8	4784.4	5778.7	3511.3
65°	473.3	491.7	539.3	576.0	660.4	759.5	924.6	1067.7	1309.8	1357.5	774.2
67.5°	385.2	399.9	444.0	484.3	499.0	410.9	425.6	374.2	374.2	333.9	267.8
70°	282.5	286.2	337.6	385.2	308.2	165.1	289.9	289.9	260.5	249.5	227.5
72.5°	209.1	212.8	253.2	238.5	121.1	102.7	212.8	234.8	212.8	201.8	183.5
75°	154.1	157.8	132.1	55.0	51.4	66.0	124.7	161.4	154.1	150.4	139.4
77.5°	29.4	22.0	18.3	25.7	36.7	55.0	80.7	99.1	102.7	110.1	102.7
80°	3.7	3.7	11.0	22.0	40.4	58.7	84.4	95.4	99.1	102.7	95.4
82.5°	0.0	3.7	11.0	22.0	40.4	55.0	73.4	84.4	91.7	95.4	91.7
85°	0.0	3.7	7.3	18.3	33.0	40.4	36.7	25.7	22.0	25.7	18.3
87.5°	0.0	0.0	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531049

CATALOG NUMBER: GALN-SA6B-740-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5	2311.5
2.5°	2340.9	2326.2	2274.8	2219.8	2172.1	2194.1	2172.1	2153.7	2161.1	2153.7	2146.4
5°	2469.3	2403.2	2293.2	2245.5	2205.1	2201.4	2190.4	2186.8	2190.4	2190.4	2157.4
7.5°	2590.3	2483.9	2366.5	2315.2	2267.5	2271.1	2245.5	2245.5	2241.8	2223.4	2216.1
10°	2773.8	2630.7	2480.3	2388.5	2329.8	2318.8	2293.2	2267.5	2267.5	2267.5	2230.8
12.5°	2975.6	2795.8	2590.3	2483.9	2414.2	2359.2	2318.8	2311.5	2271.1	2263.8	2245.5
15°	3151.7	2924.2	2663.7	2517.0	2428.9	2355.5	2293.2	2252.8	2234.4	2223.4	2208.8
17.5°	3324.2	3034.3	2704.1	2517.0	2421.6	2337.2	2271.1	2234.4	2190.4	2197.8	2168.4
20°	3555.3	3151.7	2715.1	2469.3	2351.9	2271.1	2183.1	2164.7	2139.1	2117.0	2124.4
22.5°	3779.1	3236.1	2682.1	2410.6	2241.8	2146.4	2102.4	2080.3	2069.3	2051.0	2025.3
25°	3980.9	3327.8	2630.7	2304.2	2124.4	2054.7	2014.3	2010.6	1985.0	1985.0	1937.3
27.5°	4186.4	3360.8	2542.6	2179.4	2021.6	1981.3	1962.9	1955.6	1944.6	1918.9	1885.9
30°	4421.2	3371.9	2414.2	2051.0	1929.9	1885.9	1911.6	1929.9	1882.2	1834.5	1849.2
32.5°	4615.7	3346.2	2260.1	1929.9	1863.9	1841.9	1893.2	1911.6	1856.5	1805.2	1779.5
35°	4850.5	3283.8	2109.7	1834.5	1797.8	1841.9	1885.9	1885.9	1775.8	1713.4	1698.8
37.5°	5206.4	3214.1	1970.3	1753.8	1728.1	1819.8	1878.6	1838.2	1665.7	1588.7	1570.4
40°	5588.0	3170.1	1834.5	1673.1	1691.4	1783.2	1816.2	1691.4	1515.3	1467.6	1452.9
42.5°	6142.0	3082.0	1713.4	1603.4	1658.4	1731.8	1731.8	1508.0	1441.9	1416.3	1412.6
45°	6831.8	3019.6	1607.0	1544.7	1610.7	1629.1	1570.4	1412.6	1364.9	1357.5	1361.2
47.5°	7169.3	2898.5	1497.0	1475.0	1522.7	1526.3	1372.2	1335.5	1295.2	1284.2	1276.8
50°	7117.9	2682.1	1353.9	1383.2	1449.3	1412.6	1251.1	1258.5	1221.8	1218.1	1199.8
52.5°	6758.4	2340.9	1210.8	1280.5	1353.9	1247.5	1152.1	1144.7	1144.7	1097.0	1078.7
55°	5991.6	1885.9	1038.3	1126.4	1214.5	1049.3	1023.7	1016.3	998.0	954.0	942.9
57.5°	4744.1	1383.2	781.5	876.9	1031.0	891.6	887.9	854.9	807.2	774.2	774.2
60°	2821.5	796.2	491.7	535.7	682.4	722.8	803.5	788.8	708.1	656.8	642.1
62.5°	1287.8	410.9	311.9	319.2	366.9	469.6	631.1	730.1	616.4	528.3	521.0
65°	432.9	304.5	256.8	245.8	253.2	282.5	377.9	517.3	491.7	407.3	392.6
67.5°	264.2	271.5	242.2	223.8	223.8	220.1	216.5	234.8	289.9	282.5	286.2
70°	227.5	249.5	223.8	201.8	194.5	183.5	154.1	128.4	110.1	128.4	135.8
72.5°	183.5	198.1	190.8	172.4	154.1	139.4	110.1	84.4	62.4	55.0	55.0
75°	135.8	146.8	154.1	132.1	117.4	99.1	80.7	55.0	33.0	22.0	22.0
77.5°	99.1	110.1	113.7	102.7	88.1	69.7	51.4	36.7	18.3	7.3	7.3
80°	84.4	99.1	110.1	102.7	91.7	66.0	47.7	25.7	14.7	3.7	3.7
82.5°	80.7	99.1	110.1	99.1	88.1	62.4	47.7	29.4	11.0	3.7	3.7
85°	18.3	25.7	33.0	40.4	47.7	47.7	36.7	22.0	11.0	3.7	3.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	3.7	3.7	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)