

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: P527971

Luminaire Tested: **GALN-SA3A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7423 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

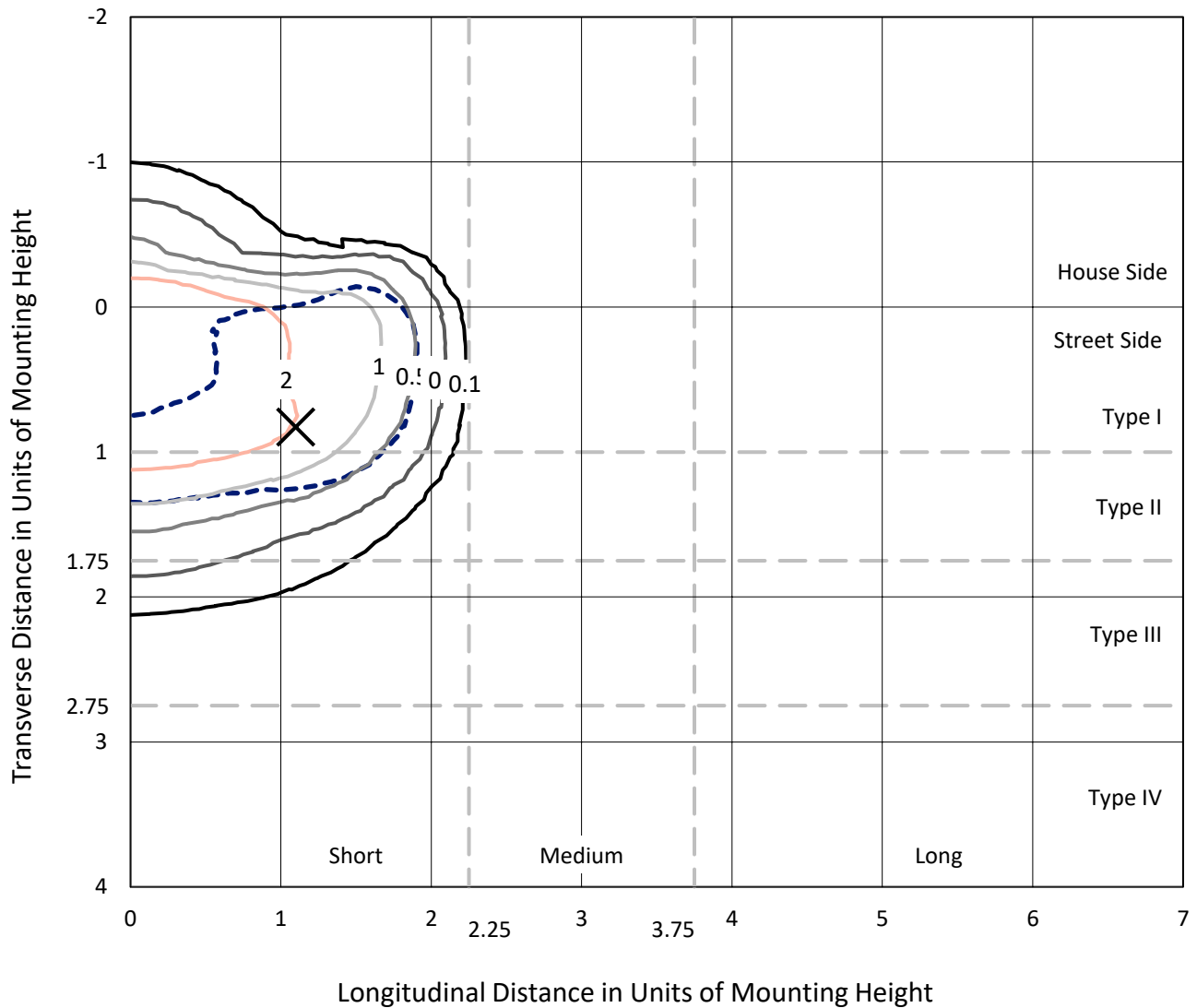
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

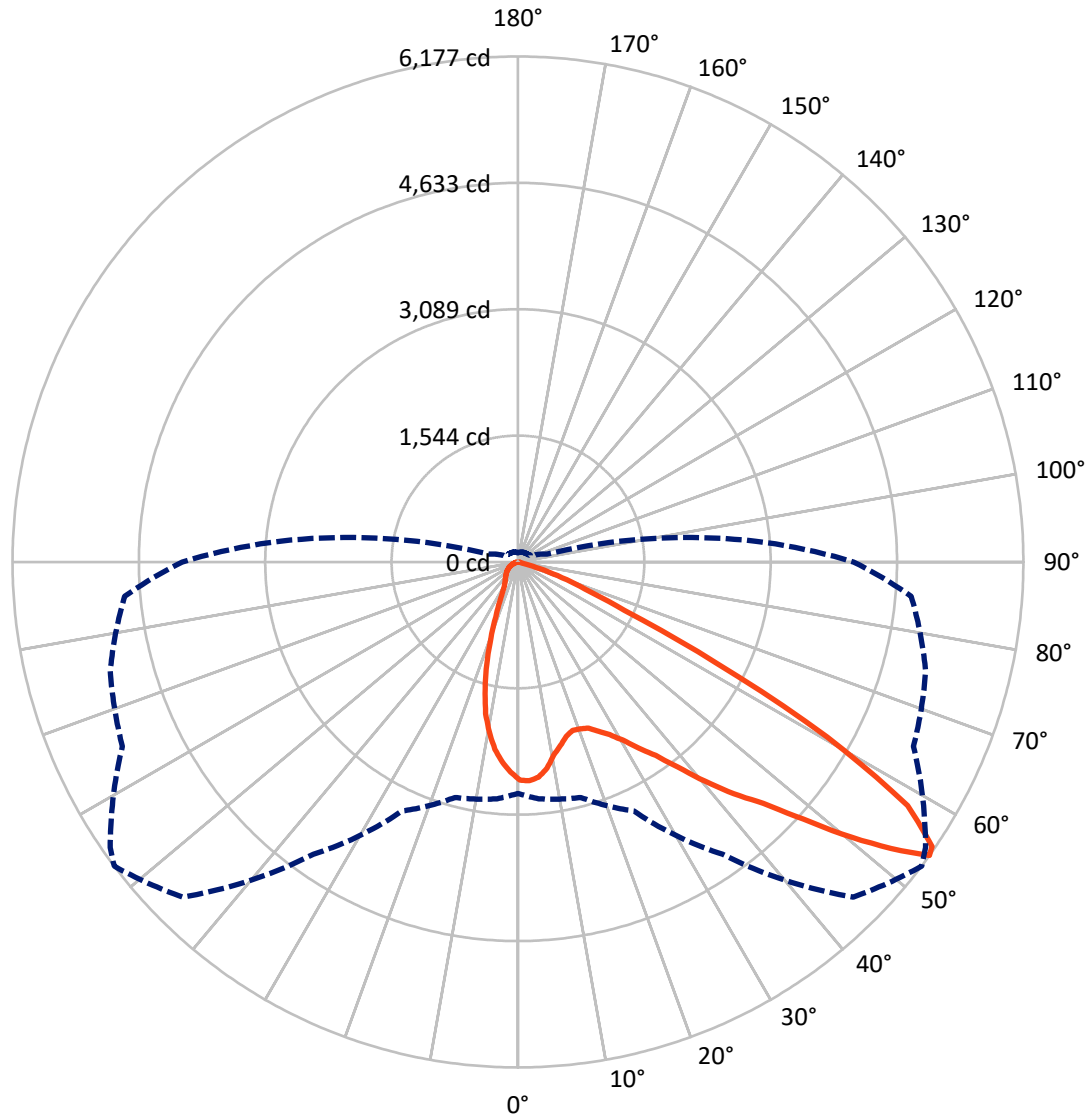
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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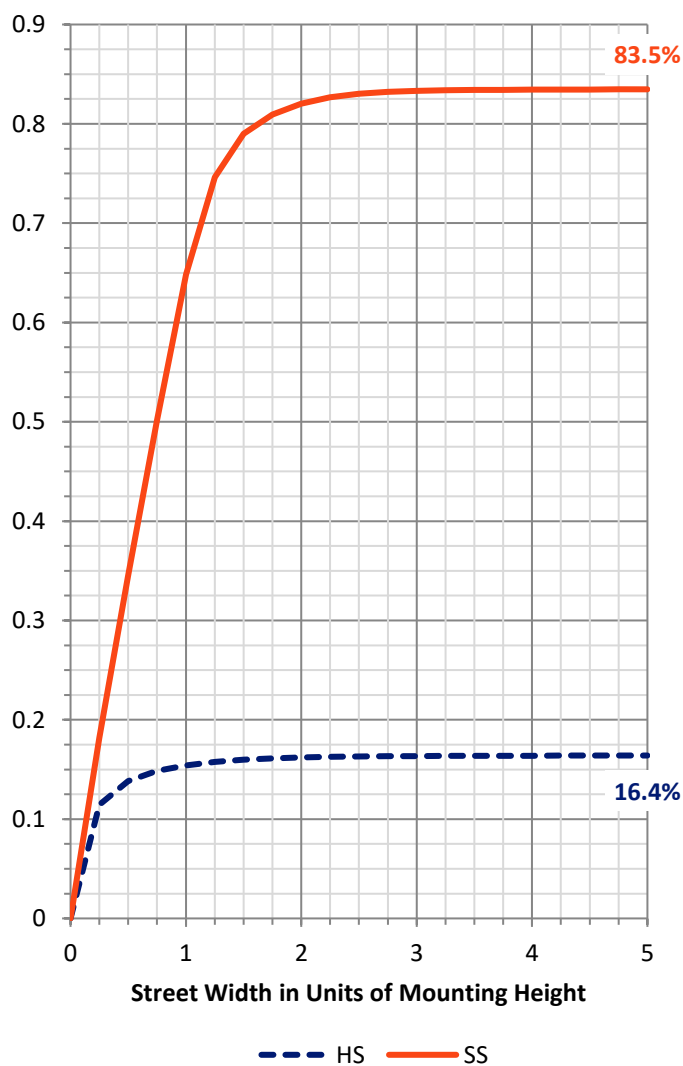
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.2	0.0	1228.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6194.9	0.0	6194.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	7423.0	0.0	7423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	3.1
10°-20°	524.5	7.1
20°-30°	745.4	10.0
30°-40°	1150.3	15.5
40°-50°	1803.6	24.3
50°-60°	2095.1	28.2
60°-70°	791.7	10.7
70°-80°	75.3	1.0
80°-90°	8.5	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°	7423.0	100.0
0°-180°	7423.0	100.0

Coefficient of Utilization



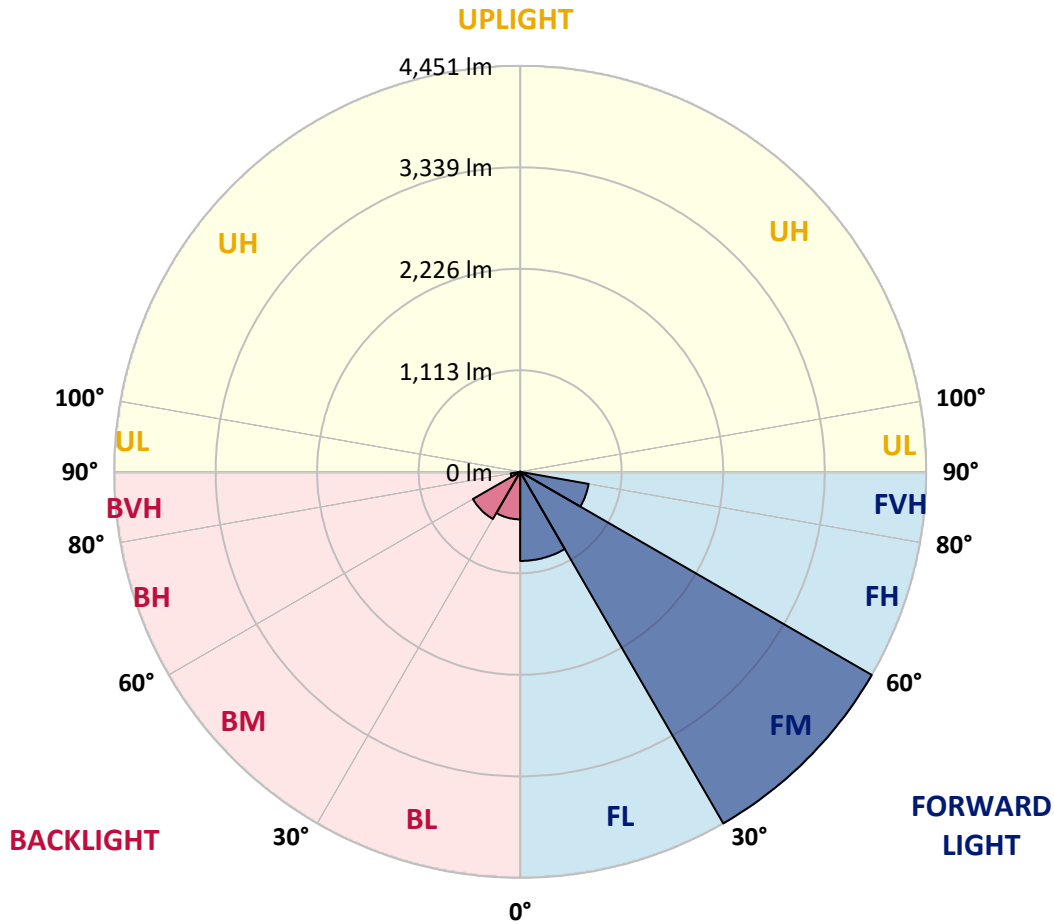
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	977.4	13.2			
FM (30°-60°)	4451.3	60.0			
FH (60°-80°)	761.7	10.3			G1/1800
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	521.2	7.0	B2/1000		
BM (30°-60°)	597.7	8.1	B1/1000		
BH (60°-80°)	105.2	1.4	B0/110		G0/110
BVH (80°-90°)	4.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2
2.5°	2652.4	2628.9	2652.4	2655.2	2671.7	2687.0	2677.3	2699.4	2687.0	2673.1	2669.0
5°	2438.0	2469.8	2471.2	2521.0	2509.9	2601.2	2641.3	2630.3	2698.0	2693.9	2684.2
7.5°	2245.8	2233.4	2250.0	2308.0	2381.3	2486.4	2544.5	2543.1	2639.9	2709.1	2702.2
10°	2067.4	2066.0	2100.6	2146.2	2208.5	2319.1	2399.3	2439.4	2590.2	2695.3	2710.5
12.5°	1947.1	1941.6	1978.9	2016.3	2114.4	2200.2	2302.5	2321.9	2494.7	2646.9	2671.7
15°	1868.3	1880.7	1883.5	1955.4	2017.6	2131.0	2211.2	2251.3	2450.5	2608.1	2703.6
17.5°	1854.5	1871.1	1872.4	1931.9	1998.3	2093.7	2164.2	2218.2	2413.1	2627.5	2704.9
20°	1882.1	1872.4	1880.7	1918.1	1983.1	2074.3	2176.7	2194.7	2400.7	2637.2	2720.1
22.5°	1960.9	1958.2	1937.4	1967.9	2013.5	2108.9	2205.7	2233.4	2436.7	2687.0	2732.6
25°	2048.1	2063.3	2043.9	2039.8	2071.6	2165.6	2294.2	2330.2	2557.0	2776.8	2771.3
27.5°	2211.2	2196.0	2196.0	2176.7	2168.4	2214.0	2389.6	2449.1	2691.1	2893.0	2815.6
30°	2367.5	2384.1	2371.7	2378.6	2323.3	2319.1	2525.2	2598.5	2929.0	3070.0	2909.6
32.5°	2615.0	2592.9	2613.7	2595.7	2522.4	2447.7	2709.1	2785.1	3216.6	3273.3	3050.7
35°	2821.1	2811.4	2899.9	2897.2	2778.2	2704.9	2904.1	3017.5	3417.1	3516.7	3216.6
37.5°	3114.3	3096.3	3197.2	3245.6	3139.2	3029.9	3183.4	3314.8	3603.8	3711.7	3386.7
40°	3415.7	3461.4	3596.9	3677.1	3563.7	3418.5	3525.0	3565.1	3728.3	3838.9	3502.9
42.5°	3797.4	3863.8	4002.1	4071.2	4061.6	3903.9	3872.1	3870.7	3818.2	3803.0	3588.6
45°	4163.9	4139.0	4352.0	4502.7	4624.4	4578.8	4206.8	4165.3	3960.6	3856.9	3610.7
47.5°	4324.3	4316.0	4461.2	4729.5	5144.4	5201.1	4693.5	4533.1	4201.2	4083.7	3731.0
50°	4116.9	4159.7	4303.6	4600.9	5237.0	5669.9	5290.9	5075.2	4482.0	4360.3	4015.9
52.5°	3439.3	3468.3	3605.2	3982.7	4921.7	5946.4	5863.5	5739.0	4997.8	4795.9	4512.4
54°	2828.0	2905.5	2980.1	3359.0	4360.3	5792.9	6177.4	6082.0	5333.8	5158.2	4824.9
55°	2462.9	2508.6	2562.5	2940.0	3971.7	5533.0	6141.4	6149.7	5559.2	5271.6	5035.1
57.5°	1799.1	1830.9	1775.6	1943.0	2727.1	4493.0	5617.3	5841.3	5863.5	5441.7	5163.7
60°	1374.6	1388.4	1326.2	1352.5	1695.4	3083.8	4345.0	4614.7	5289.6	4755.8	4374.1
62.5°	1066.2	1069.0	1067.6	1113.2	1168.5	1814.4	2717.4	2956.6	3646.7	3377.0	2970.5
65°	785.5	773.0	795.2	933.5	997.1	1140.9	1431.3	1605.5	1981.7	1673.3	1196.2
67.5°	508.9	513.1	535.2	694.2	854.6	875.4	880.9	867.1	868.5	478.5	300.1
70°	305.6	312.5	305.6	392.7	611.2	627.8	573.9	560.1	437.0	113.4	112.0
72.5°	181.2	171.5	153.5	168.7	254.5	304.2	273.8	272.4	171.5	66.4	66.4
75°	76.1	69.1	56.7	51.2	67.8	65.0	65.0	58.1	45.6	44.3	41.5
77.5°	15.2	15.2	11.1	12.4	16.6	19.4	23.5	23.5	27.7	27.7	26.3
80°	0.0	1.4	4.1	8.3	12.4	18.0	20.7	20.7	23.5	23.5	19.4
82.5°	0.0	1.4	4.1	8.3	11.1	16.6	20.7	20.7	23.5	24.9	20.7
85°	0.0	1.4	4.1	6.9	11.1	13.8	13.8	12.4	9.7	8.3	5.5
87.5°	0.0	0.0	1.4	2.8	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2	2666.2
2.5°	2678.7	2677.3	2644.1	2590.2	2577.7	2532.1	2526.5	2498.9	2514.1	2462.9	2457.4
5°	2656.5	2639.9	2599.8	2565.3	2464.3	2392.4	2335.7	2266.6	2226.5	2233.4	2207.1
7.5°	2688.3	2645.5	2574.9	2454.6	2331.6	2205.7	2138.0	1996.9	1945.7	1869.7	1858.6
10°	2655.2	2623.3	2514.1	2315.0	2144.9	1963.7	1804.7	1648.4	1529.5	1478.3	1467.2
12.5°	2652.4	2597.1	2414.5	2193.3	1947.1	1687.1	1456.2	1261.2	1143.7	1077.3	1062.1
15°	2609.5	2543.1	2302.5	2005.2	1665.0	1341.4	1089.7	901.6	811.8	773.0	784.1
17.5°	2613.7	2514.1	2190.5	1806.1	1387.0	984.6	744.0	647.2	623.7	633.4	633.4
20°	2609.5	2449.1	2055.0	1576.5	1062.1	683.1	546.2	511.7	526.9	557.3	550.4
22.5°	2587.4	2418.7	1930.5	1334.5	781.3	506.1	438.4	439.8	463.3	500.6	508.9
25°	2604.0	2350.9	1772.9	1089.7	569.8	403.8	380.3	390.0	414.9	442.5	448.1
27.5°	2591.5	2302.5	1608.3	846.3	416.3	347.1	345.7	356.8	367.8	388.6	388.6
30°	2605.4	2258.3	1446.5	629.2	343.0	318.1	312.5	320.8	331.9	336.0	334.7
32.5°	2656.5	2225.1	1259.8	470.2	302.9	290.4	290.4	290.4	289.0	294.6	295.9
35°	2768.6	2230.6	1095.3	363.7	276.6	266.9	262.7	257.2	254.5	257.2	258.6
37.5°	2890.2	2227.8	925.2	309.8	257.2	248.9	239.2	230.9	229.6	232.3	228.2
40°	2944.2	2254.1	767.5	278.0	239.2	229.6	214.3	207.4	208.8	211.6	208.8
42.5°	3017.5	2262.4	665.2	253.1	222.6	207.4	197.8	189.5	188.1	192.2	190.8
45°	3016.1	2215.4	557.3	239.2	207.4	190.8	178.4	171.5	171.5	174.2	175.6
47.5°	3104.6	2208.5	478.5	226.8	196.4	179.8	164.6	159.0	157.6	157.6	154.9
50°	3310.6	2305.3	417.6	213.0	182.5	167.3	154.9	148.0	142.4	139.7	138.3
52.5°	3713.1	2606.8	370.6	196.4	167.3	154.9	143.8	138.3	131.4	124.5	123.1
54°	4103.0	2917.9	367.8	182.5	154.9	146.6	136.9	134.1	125.8	116.2	113.4
55°	4278.7	3099.1	377.5	171.5	146.6	141.1	132.8	130.0	121.7	110.6	109.2
57.5°	4423.9	3169.6	372.0	142.4	132.8	131.4	124.5	120.3	110.6	95.4	92.7
60°	3560.9	2396.6	266.9	125.8	121.7	118.9	113.4	110.6	98.2	81.6	80.2
62.5°	2250.0	1378.7	170.1	110.6	106.5	102.3	95.4	92.7	81.6	65.0	60.8
65°	958.3	571.1	114.8	98.2	91.3	84.4	78.8	74.7	65.0	48.4	47.0
67.5°	248.9	203.3	95.4	85.7	76.1	66.4	62.2	55.3	44.3	33.2	31.8
70°	112.0	102.3	80.2	71.9	60.8	51.2	45.6	38.7	29.0	22.1	20.7
72.5°	66.4	65.0	60.8	53.9	45.6	38.7	33.2	26.3	19.4	12.4	12.4
75°	41.5	40.1	41.5	37.3	31.8	29.0	24.9	18.0	11.1	5.5	5.5
77.5°	24.9	24.9	24.9	23.5	22.1	22.1	18.0	11.1	5.5	1.4	1.4
80°	19.4	19.4	20.7	19.4	19.4	19.4	15.2	8.3	2.8	0.0	0.0
82.5°	19.4	20.7	23.5	22.1	19.4	16.6	13.8	8.3	2.8	0.0	0.0
85°	5.5	4.1	6.9	9.7	13.8	12.4	9.7	6.9	2.8	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	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)