

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: P651257

Luminaire Tested: **GALN-SA2D-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11154.2 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

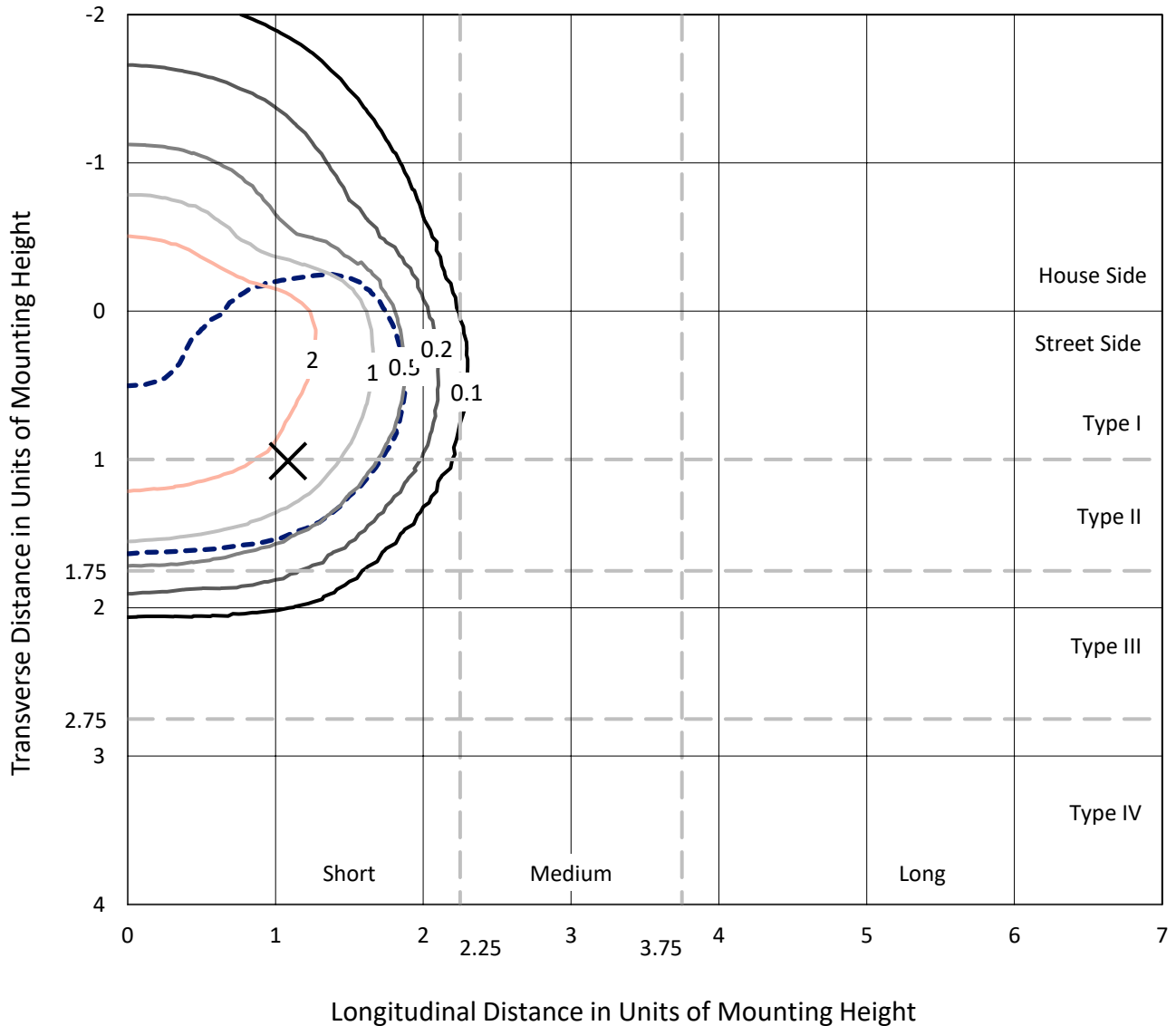
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

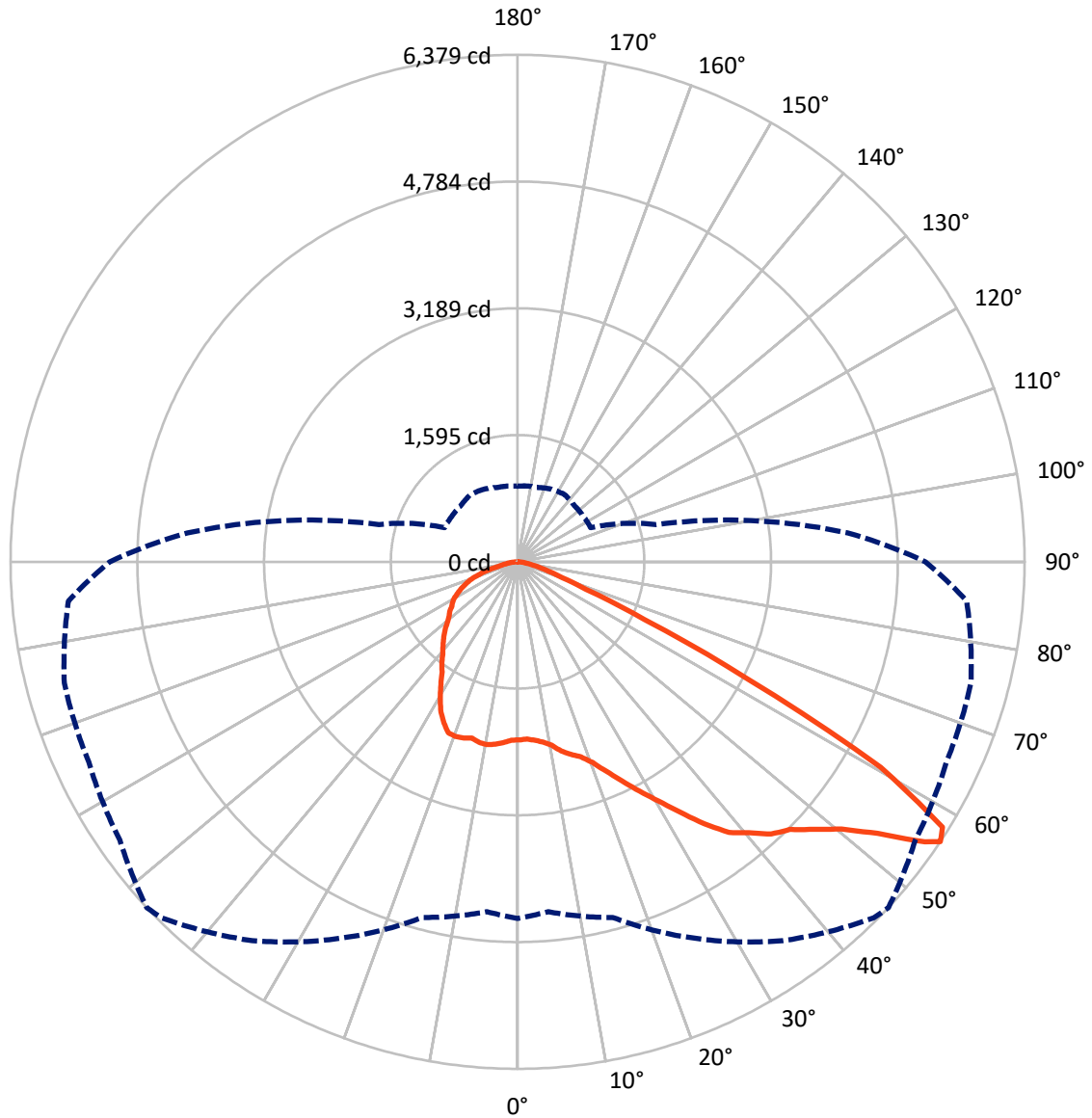
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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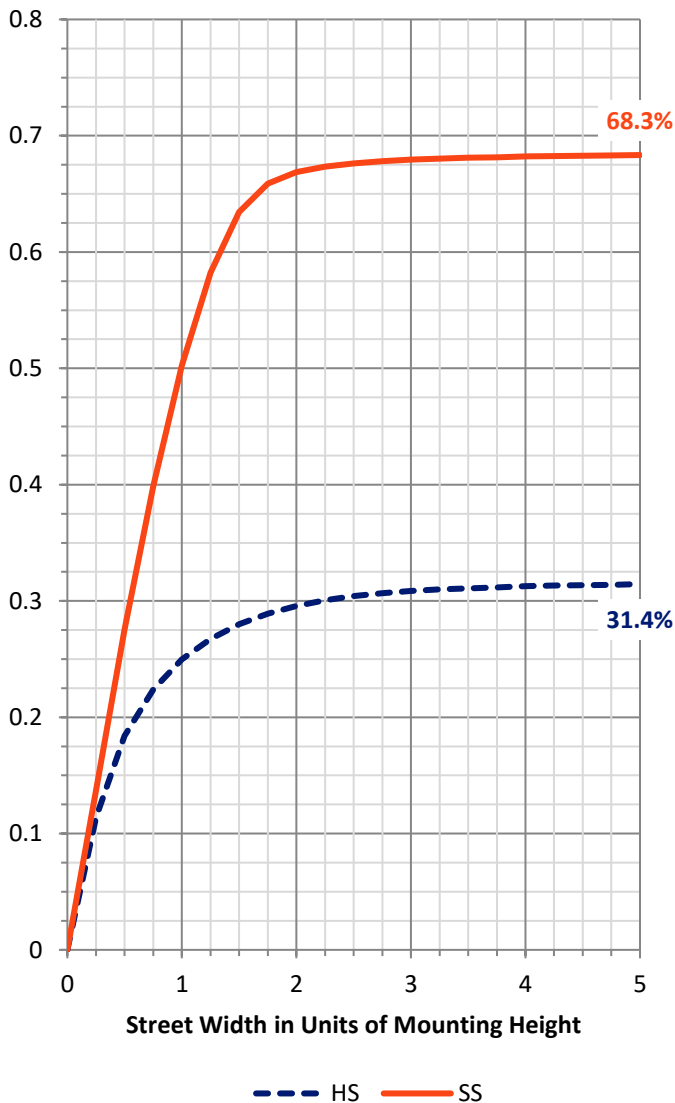
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3534.6	0.0	3534.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7619.6	0.0	7619.6
	% Fixture	68.3	0.0	68.3
Total	Lumens	11154.2	0.0	11154.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	2.0
10°-20°	688.7	6.2
20°-30°	1217.4	10.9
30°-40°	1828.5	16.4
40°-50°	2509.4	22.5
50°-60°	2989.6	26.8
60°-70°	1279.4	11.5
70°-80°	362.1	3.2
80°-90°	60.9	0.5
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°	11154.2	100.0
0°-180°	11154.2	100.0

Coefficient of Utilization



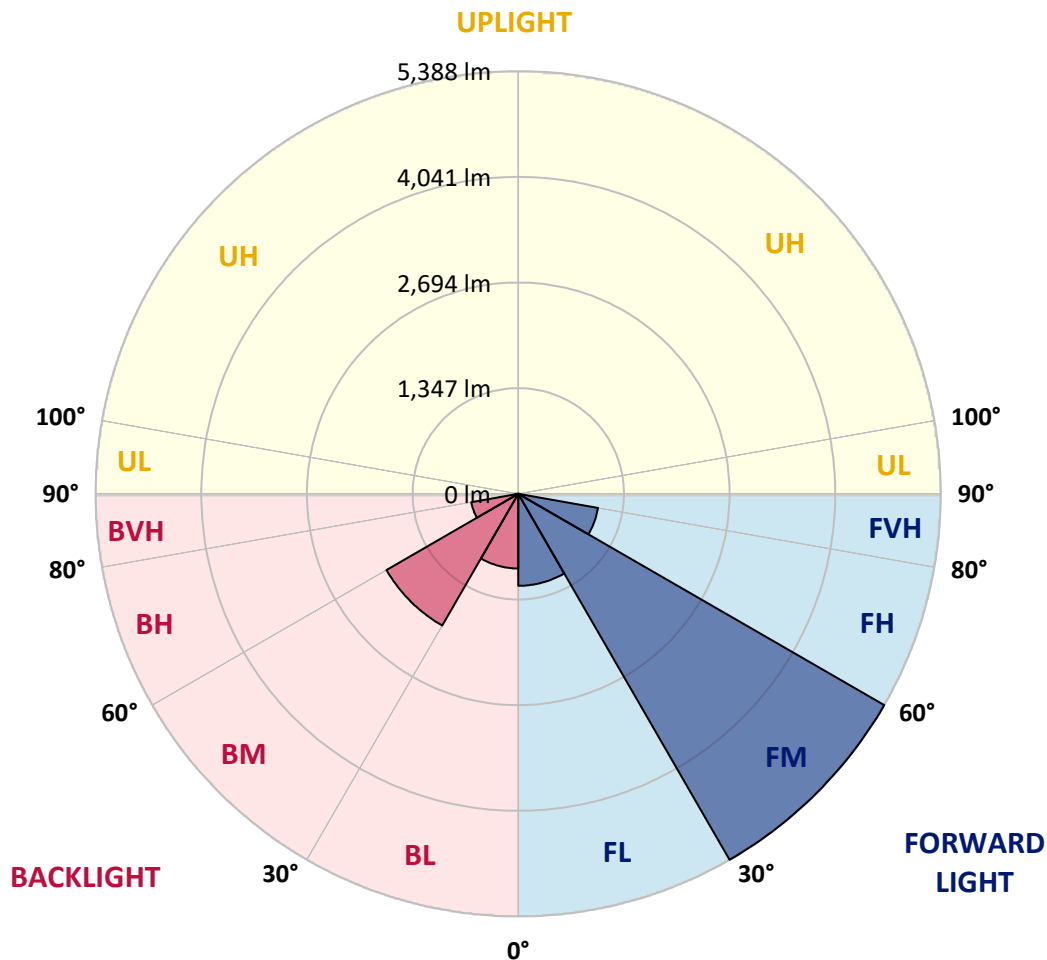
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.7	10.5			
FM (30°-60°)	5387.7	48.3			
FH (60°-80°)	1033.3	9.3			G1/1800
FVH (80°-90°)	25.9	0.2			G1/100
BL (0°-30°)	951.7	8.5	B2/1000		
BM (30°-60°)	1939.7	17.4	B2/2500		
BH (60°-80°)	608.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	35.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5
2.5°	2232.0	2227.7	2224.9	2247.7	2239.1	2240.5	2232.0	2240.5	2246.2	2233.4	2251.9
5°	2227.7	2240.5	2229.2	2236.3	2254.7	2249.1	2254.7	2271.8	2267.6	2263.3	2257.6
7.5°	2267.6	2269.0	2277.5	2280.4	2286.1	2280.4	2288.9	2304.6	2300.3	2276.1	2278.9
10°	2324.4	2327.3	2328.7	2344.4	2354.4	2355.7	2345.8	2331.6	2330.2	2362.9	2340.1
12.5°	2389.9	2382.8	2399.9	2405.5	2416.9	2429.7	2442.5	2412.7	2431.2	2432.6	2405.5
15°	2485.2	2492.3	2472.5	2472.5	2476.7	2478.1	2513.7	2499.5	2496.6	2481.0	2492.3
17.5°	2627.5	2579.1	2577.7	2557.7	2555.0	2566.3	2579.1	2590.4	2628.9	2597.6	2536.5
20°	2731.3	2742.7	2701.5	2677.2	2681.5	2707.2	2694.3	2745.5	2772.6	2721.4	2661.6
22.5°	2914.8	2876.4	2886.4	2832.3	2836.6	2863.6	2862.2	2914.8	2930.5	2849.4	2762.6
25°	3038.6	3028.6	3037.2	2994.5	3000.2	3021.5	3055.7	3142.5	3116.8	3027.2	2826.6
27.5°	3219.3	3199.3	3192.3	3176.5	3170.9	3227.8	3267.6	3360.1	3341.6	3210.7	2940.5
30°	3404.2	3391.4	3398.5	3334.5	3357.3	3478.2	3489.6	3616.1	3607.6	3377.2	3067.0
32.5°	3532.2	3539.3	3552.1	3516.6	3617.6	3714.3	3752.7	3896.4	3903.5	3663.1	3311.7
35°	3738.5	3714.3	3721.4	3762.7	3809.6	3986.0	4048.6	4143.9	4203.7	3963.3	3546.4
37.5°	3867.9	3893.6	3863.7	3929.2	4051.4	4263.4	4320.3	4418.4	4481.1	4259.2	3866.5
40°	4069.9	4028.7	4050.0	4097.0	4222.2	4498.2	4482.5	4583.5	4603.4	4511.0	4165.3
42.5°	4287.6	4267.7	4237.8	4344.5	4449.8	4650.4	4681.7	4634.8	4735.7	4757.0	4592.0
45°	4548.0	4572.1	4576.4	4579.2	4671.7	4846.7	4804.0	4762.8	4879.4	5034.5	4856.6
47.5°	4789.7	4713.0	4768.5	4845.3	4976.1	4977.5	5027.3	4929.2	5053.0	5190.9	5095.6
50°	4870.8	4833.9	4907.8	5053.0	5255.0	5276.3	5282.0	5142.5	5206.5	5316.1	5178.1
52.5°	4839.5	4826.8	5016.0	5240.7	5536.6	5644.7	5673.2	5501.1	5536.6	5486.9	5360.2
55°	4690.2	4728.6	4919.3	5377.3	5831.1	6165.4	6219.4	6001.8	5775.6	5814.0	5674.6
56°	4485.3	4418.4	4631.9	5222.2	5818.3	6334.7	6378.7	6107.1	5953.4	5903.7	5671.8
57.5°	3805.4	3718.6	3998.8	4698.8	5495.3	6270.7	6303.4	6151.2	5923.6	5822.6	5257.8
60°	2227.7	2270.4	2626.0	3240.6	4239.2	5141.1	5250.7	5361.6	5209.4	4757.0	3913.5
62.5°	1075.5	1048.4	1303.0	1857.9	2583.4	3281.8	3249.1	3560.7	3731.3	3380.0	2471.0
65°	563.3	560.5	711.3	1014.2	1419.7	1724.1	1754.0	1921.9	2156.6	1741.2	1254.7
67.5°	413.9	425.4	500.7	712.7	913.3	931.7	927.5	1011.5	1034.2	874.9	771.0
70°	324.4	330.0	385.5	542.0	679.9	608.9	596.0	606.0	672.9	701.3	667.2
72.5°	234.7	240.4	287.4	365.6	425.4	415.4	423.9	479.4	561.9	591.8	556.2
75°	156.5	160.7	186.4	223.4	251.8	271.7	287.4	351.4	428.2	445.2	428.2
77.5°	108.2	112.4	129.4	157.9	160.7	173.6	179.2	209.2	256.1	277.4	266.0
80°	61.1	61.1	69.7	81.1	99.6	116.6	119.5	143.6	165.0	179.2	182.1
82.5°	28.4	29.9	37.0	49.8	65.4	81.1	83.9	99.6	115.2	129.4	133.7
85°	14.2	15.6	21.4	29.9	39.9	48.4	46.9	48.4	51.2	48.4	49.8
87.5°	4.3	4.3	5.7	7.1	5.7	7.1	7.1	8.5	9.9	11.4	12.8
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°	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5	2240.5
2.5°	2253.4	2257.6	2229.2	2256.2	2246.2	2244.8	2264.7	2261.9	2269.0	2266.2	2249.1
5°	2254.7	2244.8	2274.7	2247.7	2260.4	2287.5	2269.0	2311.7	2290.3	2304.6	2273.2
7.5°	2298.9	2301.7	2296.0	2307.4	2301.7	2314.5	2304.6	2314.5	2297.4	2298.9	2327.3
10°	2337.3	2328.7	2338.7	2324.4	2334.4	2330.2	2307.4	2300.3	2305.9	2298.9	2317.4
12.5°	2408.4	2392.7	2385.7	2368.6	2357.2	2314.5	2278.9	2259.0	2286.1	2290.3	2281.8
15°	2481.0	2482.4	2449.7	2411.2	2340.1	2276.1	2284.7	2291.7	2291.7	2303.2	2281.8
17.5°	2526.4	2526.4	2496.6	2419.8	2347.2	2310.2	2301.7	2278.9	2259.0	2256.2	2254.7
20°	2606.2	2582.0	2513.7	2418.4	2344.4	2327.3	2263.3	2209.2	2168.0	2153.8	2152.4
22.5°	2697.2	2636.0	2540.7	2421.2	2340.1	2315.9	2196.4	2115.4	2041.4	2010.1	2014.4
25°	2781.1	2683.0	2556.3	2408.4	2324.4	2207.8	2074.1	1961.7	1884.9	1859.3	1846.5
27.5°	2839.5	2732.7	2556.3	2419.8	2266.2	2086.9	1950.4	1806.6	1739.8	1722.7	1725.6
30°	2917.7	2795.3	2600.5	2395.6	2149.5	1930.4	1766.9	1672.9	1633.1	1618.8	1628.8
32.5°	3101.2	2958.9	2661.6	2337.3	2011.5	1773.9	1641.6	1589.0	1530.7	1502.2	1492.3
35°	3300.3	3114.0	2721.4	2239.1	1856.4	1631.7	1549.2	1500.8	1431.1	1399.8	1405.5
37.5°	3582.0	3313.1	2725.6	2076.9	1688.6	1552.0	1476.6	1401.2	1344.3	1296.0	1281.8
40°	3961.9	3584.8	2715.7	1906.2	1553.4	1458.1	1402.6	1308.8	1244.8	1210.6	1217.7
42.5°	4296.2	3903.5	2674.4	1712.8	1431.1	1394.1	1331.6	1239.0	1176.5	1140.9	1138.0
45°	4577.8	4138.2	2596.2	1547.8	1328.7	1323.0	1250.4	1179.3	1129.5	1096.8	1111.0
47.5°	4838.1	4327.4	2478.1	1382.8	1234.8	1246.2	1176.5	1132.3	1101.0	1071.2	1069.8
50°	4932.0	4324.6	2374.2	1246.2	1159.4	1153.7	1150.8	1103.9	1071.2	1045.6	1057.0
52.5°	5088.5	4372.9	2261.9	1152.3	1091.1	1092.5	1102.5	1068.3	1031.3	1015.7	1030.0
55°	5313.3	4380.1	2014.4	1042.8	1034.2	1044.2	1044.2	1021.4	990.1	977.3	970.2
56°	5129.8	4168.1	1806.6	1014.2	1005.8	1005.8	1032.7	1007.2	968.7	958.8	950.2
57.5°	4731.5	3651.7	1512.2	980.2	967.3	987.2	1001.5	974.5	938.9	924.7	933.2
60°	3263.3	2471.0	1136.6	906.2	906.2	938.9	950.2	910.5	894.8	893.4	882.0
62.5°	1904.8	1439.6	889.1	839.3	842.2	869.2	877.8	855.0	835.0	859.2	870.6
65°	1010.0	859.2	762.5	768.2	769.6	791.0	828.0	826.5	825.1	832.2	833.6
67.5°	731.2	714.1	692.8	687.1	690.0	705.6	742.6	771.0	769.6	752.5	739.7
70°	651.5	627.4	614.5	615.9	604.6	623.1	653.0	671.5	638.7	618.8	610.3
72.5°	542.0	534.9	526.4	527.8	505.0	500.7	466.6	466.6	458.1	452.4	462.3
75°	413.9	411.1	415.4	408.3	384.1	358.5	338.6	320.1	291.7	280.2	274.6
77.5°	261.7	270.3	280.2	264.6	254.7	236.2	216.2	197.7	175.0	162.1	162.1
80°	177.8	184.9	192.1	189.2	177.8	160.7	145.1	125.2	109.5	99.6	98.1
82.5°	135.1	140.9	150.8	139.4	128.0	113.8	101.0	86.8	72.6	61.1	61.1
85°	48.4	55.5	61.1	66.9	71.1	72.6	62.6	51.2	41.3	32.7	31.3
87.5°	12.8	14.2	15.6	14.2	14.2	14.2	15.6	14.2	12.8	9.9	9.9
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)