

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: P451850

Luminaire Tested: **GALN-SA2D-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14142 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

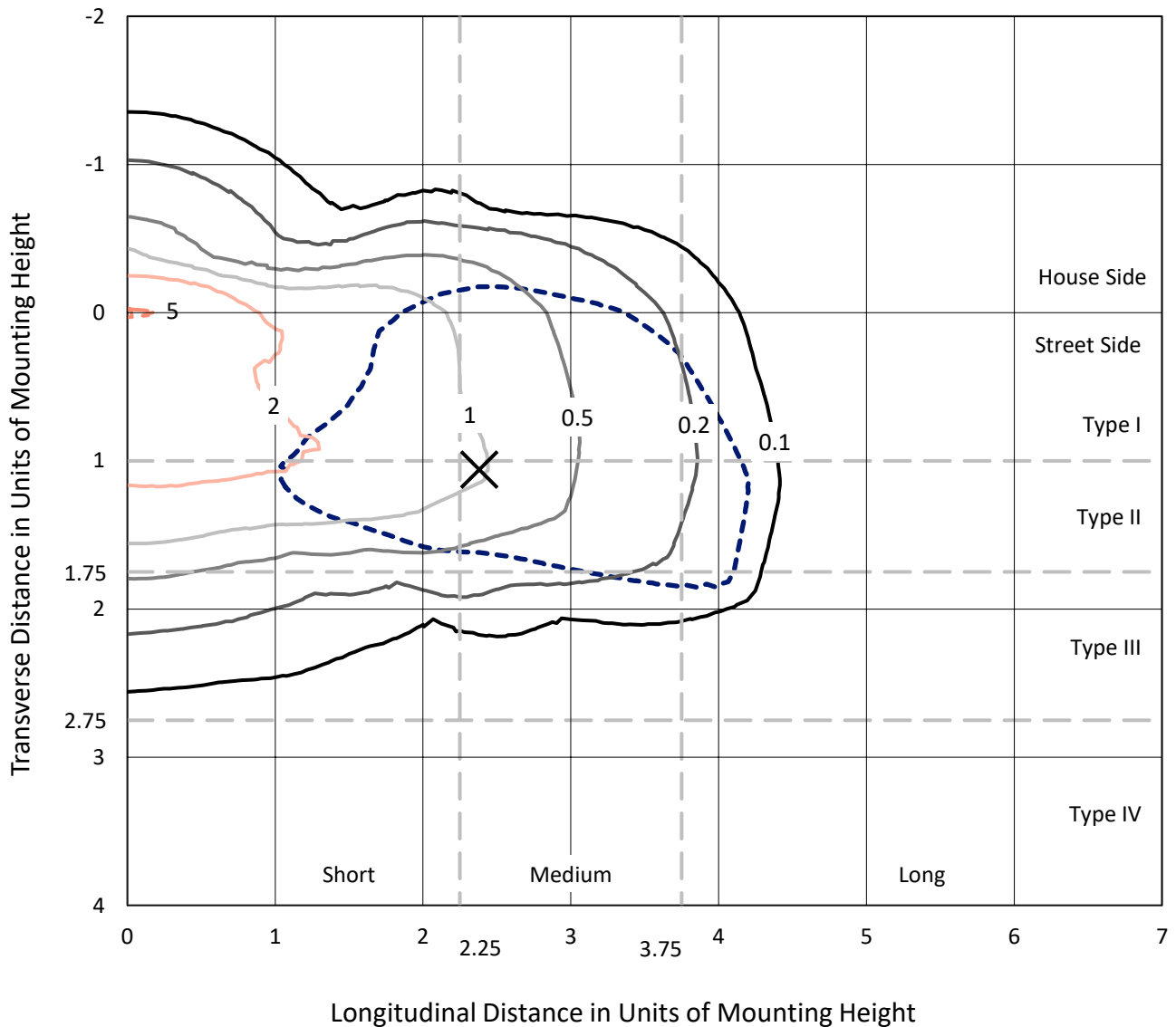
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

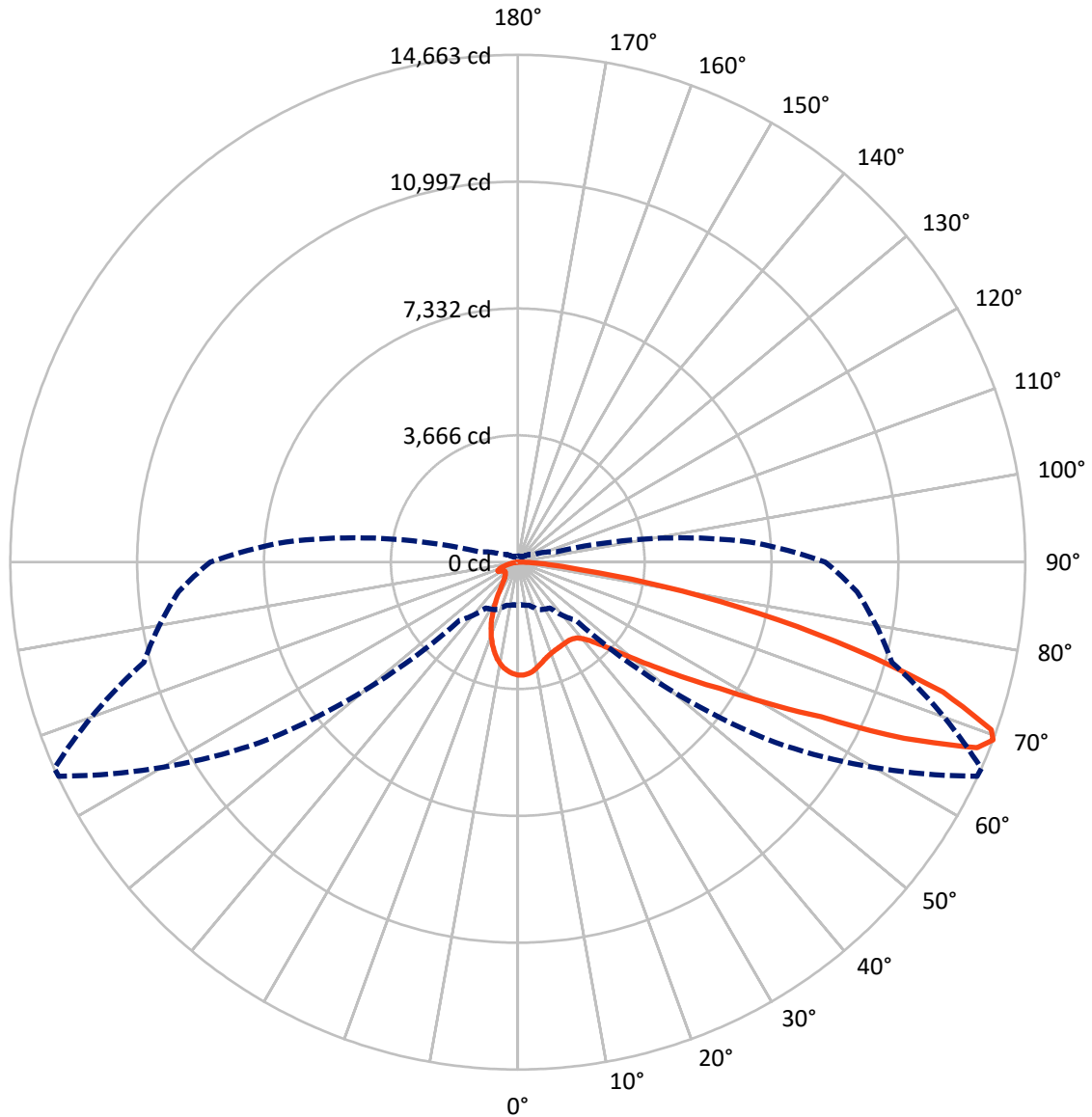
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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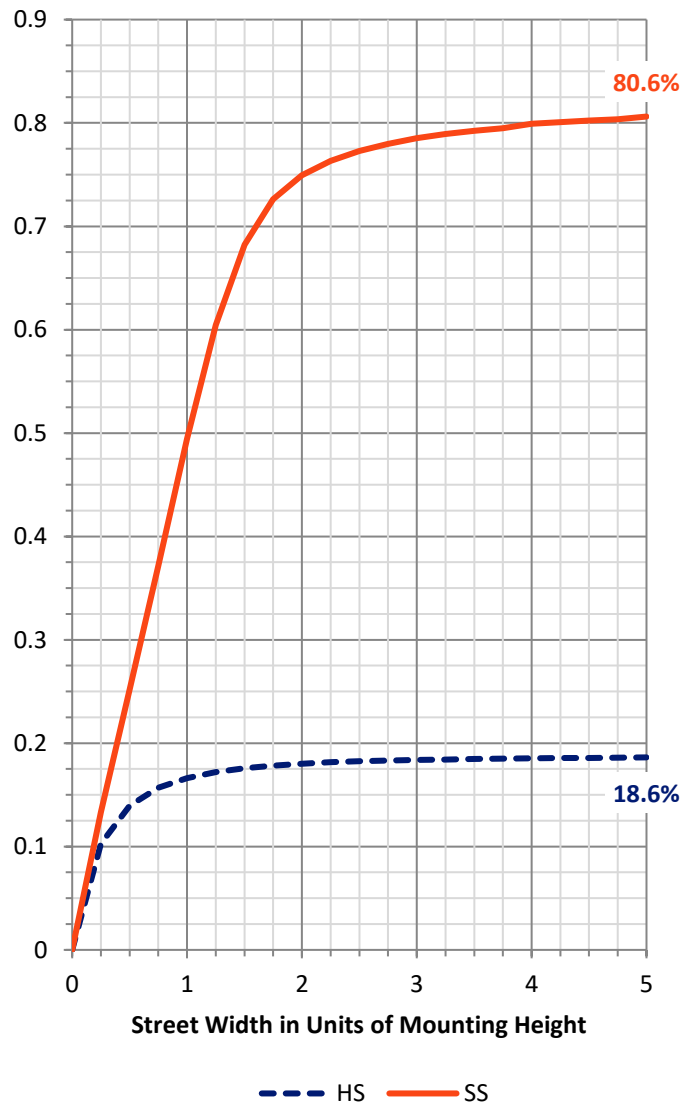
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2659.6	0.0	2659.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11482.4	0.0	11482.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	14142.0	0.0	14142.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	2.0
10°-20°	672.7	4.8
20°-30°	915.7	6.5
30°-40°	1230.6	8.7
40°-50°	1837.4	13.0
50°-60°	2922.8	20.7
60°-70°	3594.8	25.4
70°-80°	2339.0	16.5
80°-90°	345.4	2.4
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°	14142.0	100.0
0°-180°	14142.0	100.0



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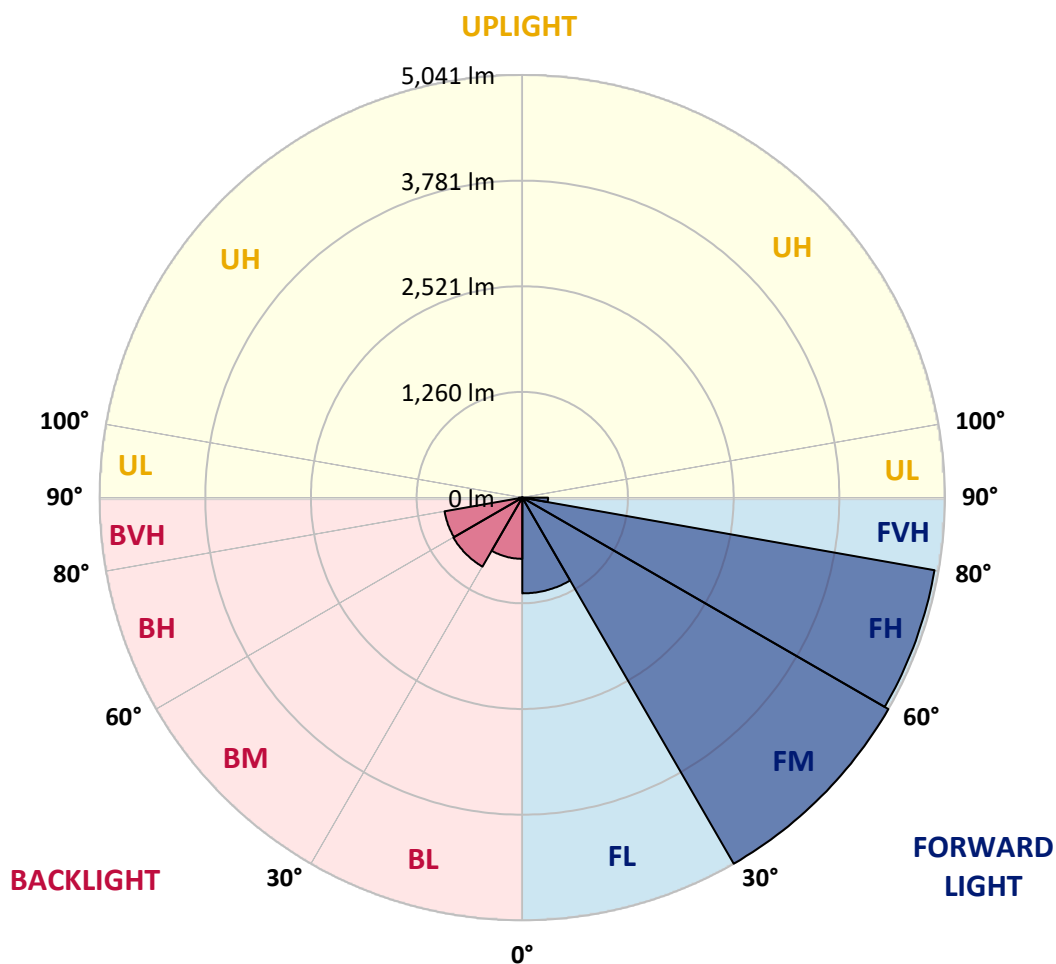
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1141.9	8.1			
FM	(30°-60°)	5041.2	35.6			
FH	(60°-80°)	4992.2	35.3			G2/5000
FVH	(80°-90°)	307.1	2.2			G3/500
BL	(0°-30°)	730.1	5.2	B2/1000		
BM	(30°-60°)	949.6	6.7	B1/1000		
BH	(60°-80°)	941.6	6.7	B2/1000		G2/1000
BVH	(80°-90°)	38.3	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8
2.5°	3151.4	3164.0	3178.1	3193.7	3223.5	3239.9	3251.7	3265.0	3266.6	3273.6	3268.1
5°	2918.8	2933.7	2954.9	2984.6	3029.3	3099.0	3171.0	3229.8	3236.8	3269.7	3279.1
7.5°	2724.6	2733.2	2750.5	2798.2	2861.7	2939.2	3044.1	3163.2	3180.4	3258.7	3286.1
10°	2566.4	2575.0	2595.4	2644.7	2707.4	2804.5	2919.6	3076.3	3090.4	3225.1	3287.7
12.5°	2448.2	2456.0	2477.9	2526.5	2598.5	2689.4	2816.2	2982.3	3002.6	3180.4	3272.8
15°	2358.1	2373.0	2391.0	2430.9	2506.9	2594.6	2717.6	2896.1	2912.6	3133.4	3262.6
17.5°	2319.7	2326.8	2339.3	2376.1	2431.7	2517.9	2641.6	2828.8	2848.4	3100.5	3260.3
20°	2321.3	2328.3	2330.7	2351.0	2391.0	2465.4	2587.6	2775.5	2799.0	3071.6	3264.2
22.5°	2374.5	2375.3	2366.7	2359.7	2375.3	2437.2	2549.2	2735.6	2763.0	3059.0	3267.3
25°	2456.8	2470.9	2458.3	2425.4	2396.5	2426.2	2534.3	2713.7	2739.5	3041.0	3263.4
27.5°	2589.9	2592.3	2582.1	2537.4	2462.3	2440.3	2528.0	2697.2	2719.1	3027.7	3243.9
30°	2768.5	2761.4	2752.0	2702.7	2584.4	2494.4	2541.4	2682.3	2705.0	3008.1	3220.4
32.5°	2949.4	2971.3	2962.7	2904.7	2751.2	2599.3	2584.4	2680.8	2699.6	2993.2	3194.5
35°	3141.3	3151.4	3192.2	3162.4	3005.0	2769.3	2665.1	2705.0	2719.9	2994.0	3176.5
37.5°	3291.6	3319.0	3414.6	3440.4	3292.4	2994.0	2795.9	2774.0	2780.2	3032.4	3183.5
40°	3473.3	3520.3	3643.3	3749.0	3651.9	3286.1	3018.3	2901.6	2909.4	3124.8	3229.8
42.5°	3703.6	3736.5	3901.7	4045.0	4029.4	3672.2	3287.7	3110.7	3114.6	3308.9	3359.0
45°	3973.0	4020.0	4205.6	4420.9	4457.8	4109.2	3676.9	3427.1	3424.8	3594.7	3600.2
47.5°	4317.6	4346.5	4530.6	4765.5	4914.3	4658.2	4149.2	3881.3	3856.3	4011.3	3966.7
50°	4634.7	4680.2	4819.6	5076.4	5446.9	5301.2	4770.2	4470.3	4411.5	4556.4	4481.2
52.5°	4767.9	4815.7	4933.1	5251.9	5903.5	6132.9	5558.9	5172.8	5074.9	5186.1	5158.7
55°	4536.9	4598.7	4708.4	5096.0	6104.0	7092.3	6622.4	5984.9	5913.6	5865.9	5873.7
57.5°	3915.8	3974.5	4122.6	4550.2	5864.3	7788.5	8141.0	7028.9	6876.2	6656.1	6693.7
60°	2980.7	3017.5	3094.3	3568.1	5154.0	7969.4	9865.5	8348.5	8251.4	7443.2	7469.8
62.5°	2116.9	2158.4	2211.6	2448.2	3773.3	7459.6	11215.6	10191.3	9844.3	8258.4	8232.6
65°	1719.0	1690.8	1755.1	1865.5	2214.0	5781.3	11519.5	12749.1	12271.3	9332.1	8973.5
67.5°	1413.6	1383.8	1447.3	1643.9	1683.8	3355.8	10424.7	14409.4	14313.8	10499.8	9726.1
69°	1251.5	1235.8	1291.4	1515.4	1616.4	2383.2	9081.5	14640.4	14663.1	11188.2	9842.0
70°	1127.8	1134.0	1188.1	1450.4	1585.9	1965.0	7761.9	14321.7	14514.3	11532.0	9716.7
72.5°	830.2	843.5	918.6	1201.4	1556.9	1667.3	4619.1	12509.4	12850.1	11552.4	8888.9
75°	580.3	574.1	640.6	904.6	1470.8	1652.5	2712.9	9674.4	10060.5	9985.3	7469.0
77.5°	379.8	390.0	443.3	639.1	1237.4	1639.9	1768.4	6863.6	7114.2	6678.0	4417.8
80°	267.8	267.1	296.8	436.2	917.9	1575.7	1448.1	4326.2	4262.7	2624.4	1310.2
82.5°	153.5	164.5	198.9	307.0	614.0	1387.0	1332.2	2069.1	1889.0	747.9	442.5
85°	85.4	89.3	118.3	185.6	358.7	1044.7	1163.0	941.4	888.1	312.5	190.3
87.5°	27.4	29.8	49.3	94.0	162.9	493.4	658.6	434.7	401.0	112.8	76.7
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°	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8	3265.8
2.5°	3270.5	3279.9	3254.8	3230.5	3208.6	3178.1	3150.7	3127.9	3112.3	3109.9	3102.1
5°	3281.4	3282.2	3234.5	3170.2	3107.6	3038.7	2967.4	2916.5	2868.7	2842.1	2828.8
7.5°	3289.3	3282.2	3196.1	3091.9	2971.3	2846.0	2720.7	2620.5	2542.9	2512.4	2524.1
10°	3286.1	3264.2	3138.1	2971.3	2795.9	2608.7	2428.6	2287.6	2158.4	2091.8	2093.4
12.5°	3268.9	3232.9	3052.0	2835.8	2578.2	2327.6	2051.9	1861.6	1712.0	1623.5	1596.1
15°	3254.0	3191.4	2951.0	2651.8	2331.5	1973.6	1637.6	1402.6	1277.3	1207.6	1206.9
17.5°	3238.4	3151.4	2840.5	2456.8	2048.0	1587.5	1235.0	1055.7	997.0	1004.0	992.3
20°	3221.9	3104.4	2725.4	2239.8	1702.6	1184.1	924.9	852.1	868.5	900.6	905.3
22.5°	3203.1	3054.3	2601.7	2001.0	1339.2	891.2	750.3	739.3	781.6	831.7	838.8
25°	3174.2	2991.7	2445.8	1751.1	1033.0	718.2	657.1	664.9	706.4	748.7	753.4
27.5°	3133.4	2914.1	2288.4	1439.4	776.1	616.3	600.7	610.9	631.2	657.1	663.3
30°	3078.6	2826.4	2107.5	1170.0	621.8	565.4	559.2	564.7	576.4	587.4	590.5
32.5°	3023.8	2741.8	1925.0	895.9	554.5	531.8	525.5	525.5	525.5	527.1	527.9
35°	2972.9	2662.0	1729.2	697.8	519.2	505.1	496.5	487.1	485.6	480.1	480.1
37.5°	2944.7	2589.1	1520.9	584.2	493.4	483.2	471.5	455.8	447.2	448.0	446.4
40°	2950.2	2541.4	1331.4	520.0	472.2	461.3	443.3	425.3	419.8	419.8	418.2
42.5°	3012.0	2525.7	1149.7	486.3	451.9	439.4	416.6	400.2	397.1	396.3	397.8
45°	3154.6	2564.1	986.8	464.4	434.7	415.9	393.1	378.3	375.1	375.1	374.4
47.5°	3432.6	2688.6	870.1	450.3	422.1	397.8	374.4	359.5	354.0	352.4	352.4
50°	3864.9	2958.8	783.2	437.8	406.5	381.4	357.1	339.9	331.3	330.5	329.7
52.5°	4465.6	3380.1	749.5	428.4	389.2	364.2	337.5	321.1	310.1	307.8	306.2
55°	5168.1	3968.3	795.7	421.3	371.2	344.6	317.2	300.0	289.8	285.1	284.3
57.5°	5981.8	4674.7	971.1	411.9	354.8	323.4	296.8	279.6	268.6	263.1	261.6
60°	6712.5	5400.7	1277.3	406.5	340.7	300.7	273.3	257.7	247.5	242.0	241.2
62.5°	7515.2	6093.0	1643.1	421.3	334.4	278.8	251.4	237.3	228.7	223.2	223.2
65°	8372.8	6786.1	1885.1	471.5	343.8	261.6	227.9	216.2	208.3	204.4	203.6
67.5°	8950.7	7025.7	1553.0	523.2	367.3	242.8	205.2	195.8	191.1	187.2	187.2
69°	8888.1	6722.7	1145.8	536.5	374.4	233.4	192.7	185.6	179.3	177.8	176.2
70°	8690.0	6377.3	960.2	527.9	368.9	224.8	184.8	176.2	170.7	169.2	168.4
72.5°	7740.0	5530.7	715.0	458.9	314.0	195.0	163.7	155.8	151.2	148.8	148.8
75°	6430.5	4520.4	558.4	365.0	245.9	164.5	140.2	133.9	130.0	128.4	127.7
77.5°	3604.1	2524.1	401.0	285.9	186.4	133.1	117.5	112.0	108.1	106.5	106.5
80°	1004.0	721.3	235.7	188.7	126.9	101.0	93.2	89.3	83.8	79.9	82.2
82.5°	378.3	312.5	134.7	113.6	80.7	67.4	65.0	61.9	59.5	54.0	54.0
85°	184.0	151.9	86.1	60.3	44.6	35.2	33.7	32.1	30.5	26.6	27.4
87.5°	63.4	67.4	37.6	21.9	13.3	8.6	7.0	3.9	3.9	3.9	3.9
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)