

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: P383040

Luminaire Tested: **GLEON-SA3D-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16971.9 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

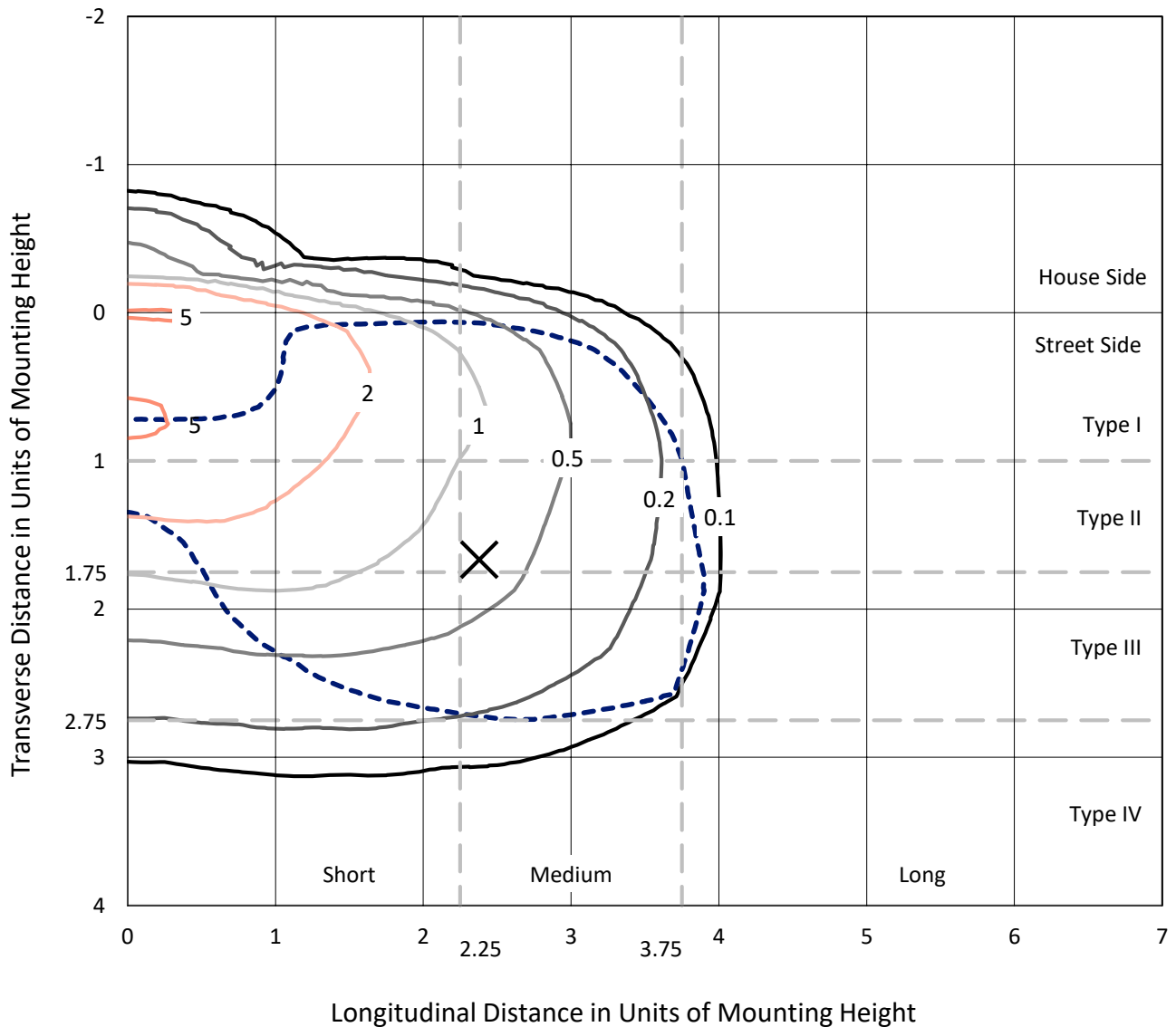
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

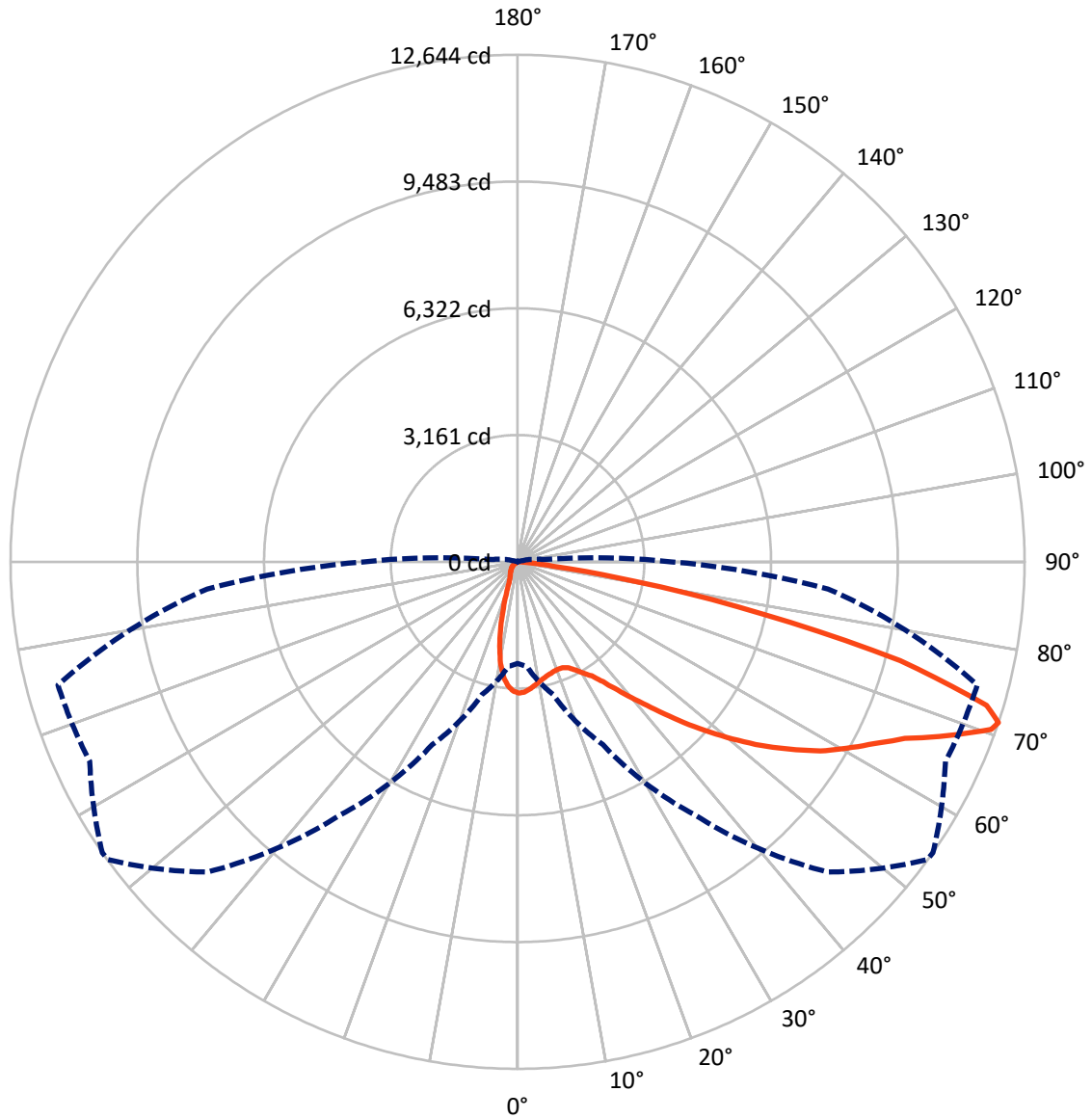
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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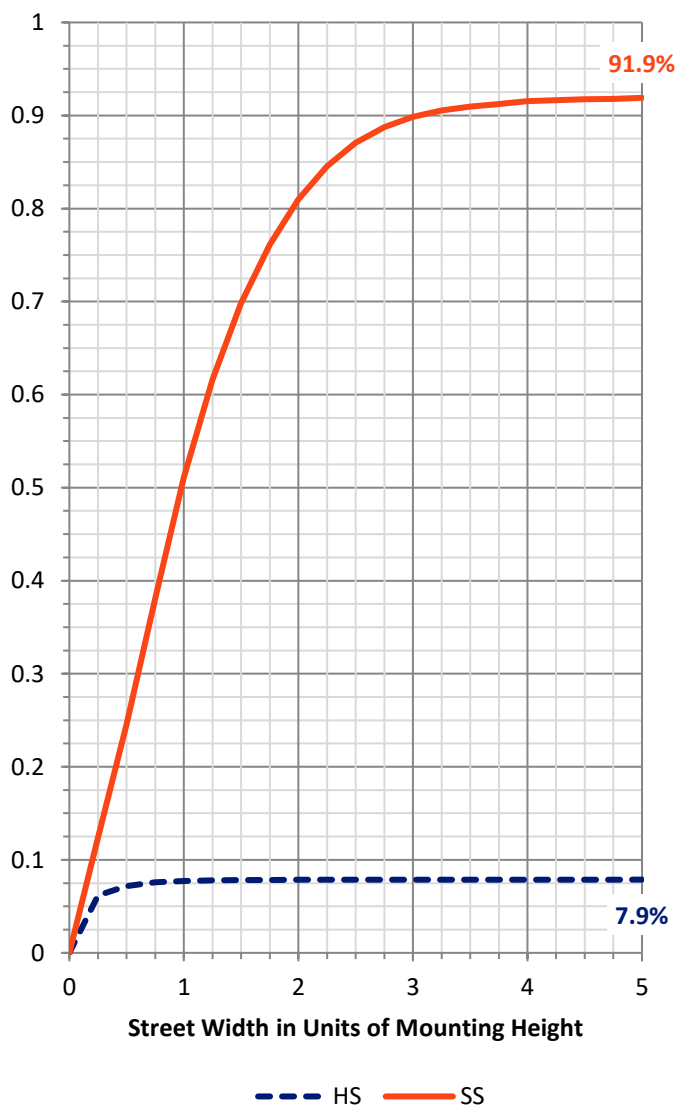
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1343.7	0.0	1343.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	15628.2	0.0	15628.2
	% Fixture	92.1	0.0	92.1
Total	Lumens	16971.9	0.0	16971.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.1	1.6
10°-20°	630.0	3.7
20°-30°	1012.5	6.0
30°-40°	1720.3	10.1
40°-50°	2670.1	15.7
50°-60°	3589.8	21.2
60°-70°	4391.5	25.9
70°-80°	2567.6	15.1
80°-90°	111.0	0.7
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°	16971.9	100.0
0°-180°	16971.9	100.0

Coefficient of Utilization



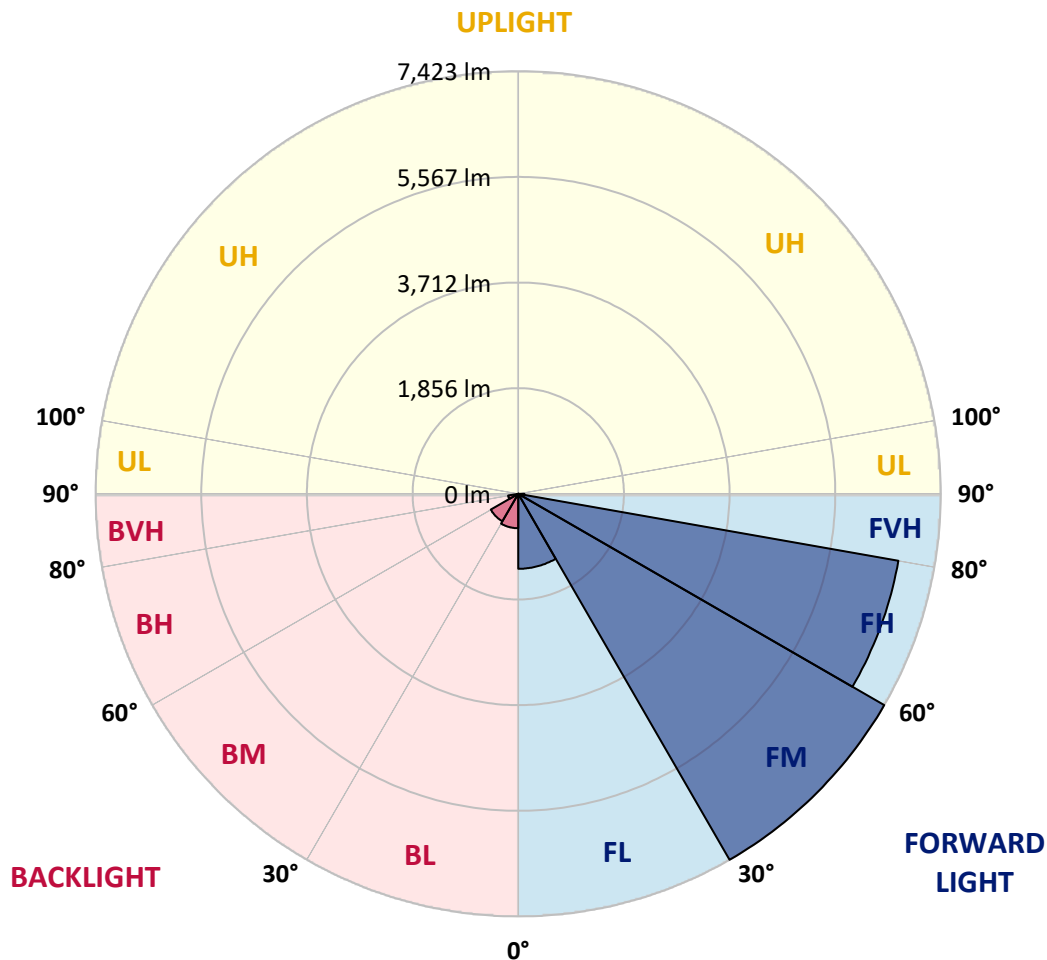
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.8	7.8			
FM (30°-60°)	7423.0	43.7			
FH (60°-80°)	6779.1	39.9			G3/7500
FVH (80°-90°)	109.2	0.6			G2/225
BL (0°-30°)	604.8	3.6	B2/1000		
BM (30°-60°)	557.1	3.3	B1/1000		
BH (60°-80°)	180.0	1.1	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1
2.5°	3177.0	3180.9	3194.6	3200.7	3215.1	3239.5	3251.8	3252.5	3272.3	3280.0	3286.0
5°	2952.3	2975.1	2998.0	3022.4	3066.6	3125.2	3183.2	3188.5	3252.5	3299.7	3324.9
7.5°	2758.7	2779.3	2806.7	2845.6	2908.0	3000.2	3097.0	3108.5	3229.7	3337.1	3393.5
10°	2559.8	2576.6	2616.2	2673.4	2759.4	2882.9	3013.2	3032.3	3209.1	3387.4	3486.5
12.5°	2347.1	2357.1	2405.1	2487.4	2613.9	2770.9	2942.4	2967.5	3196.1	3445.3	3596.2
15°	2185.6	2190.2	2235.9	2321.2	2466.1	2670.3	2887.5	2918.0	3199.1	3514.6	3715.9
17.5°	2144.4	2146.8	2171.2	2229.8	2357.8	2580.4	2844.0	2881.4	3208.3	3582.5	3836.3
20°	2311.4	2295.3	2270.2	2261.1	2315.9	2526.3	2818.1	2860.0	3220.5	3642.7	3944.5
22.5°	2769.4	2722.1	2617.7	2478.3	2393.6	2530.1	2825.0	2866.9	3259.4	3716.6	4069.5
25°	3449.1	3383.6	3206.0	2931.7	2668.0	2639.8	2882.1	2924.8	3334.8	3805.0	4189.1
27.5°	4222.6	4157.9	3940.6	3548.9	3099.4	2857.0	3013.2	3052.9	3446.8	3883.5	4280.6
30°	4963.4	4945.0	4689.0	4243.9	3641.9	3209.1	3182.4	3215.9	3529.9	3930.8	4352.9
32.5°	5591.3	5562.4	5356.6	4923.7	4263.0	3632.0	3381.3	3391.2	3592.4	3991.7	4447.4
35°	6173.6	6137.7	5957.1	5547.8	4900.1	4148.7	3687.6	3673.2	3728.8	4114.4	4584.6
37.5°	6681.8	6714.6	6514.1	6124.7	5471.6	4686.0	4100.7	4057.3	3942.2	4314.1	4783.5
40°	7107.1	7107.1	7002.6	6678.0	6089.0	5241.5	4567.8	4510.6	4263.0	4622.0	5035.8
42.5°	7260.2	7293.0	7331.8	7148.2	6641.5	5819.2	5088.3	5028.9	4714.9	5058.6	5354.3
45°	7269.3	7321.2	7520.1	7519.4	7140.6	6393.0	5675.1	5646.9	5294.1	5619.5	5749.0
47.5°	7140.6	7205.3	7533.1	7719.0	7536.1	6927.2	6316.8	6281.7	5974.6	6306.9	6162.1
50°	6941.7	7013.3	7394.3	7797.5	7805.1	7392.1	6992.8	6940.1	6723.7	7092.6	6588.8
52.5°	6585.8	6724.5	7270.2	7815.8	7981.9	7793.7	7635.9	7613.1	7562.0	7849.3	6928.8
55°	5824.5	5978.4	6958.5	7821.8	8145.7	8149.6	8238.7	8244.8	8347.7	8556.5	7181.8
57.5°	5464.8	5551.7	6414.4	7850.8	8388.9	8553.5	8853.0	8900.2	9059.5	9227.9	7470.5
60°	5238.5	5341.3	6146.1	7811.2	8770.6	9083.1	9422.2	9438.3	9608.9	9920.6	7861.5
62.5°	5057.8	5159.2	5976.9	7658.8	9199.7	9720.1	9978.6	9980.0	10108.0	10746.0	8305.8
65°	4612.0	4697.4	5634.7	7487.3	9483.2	10350.4	10624.8	10614.9	10719.2	11616.2	8821.7
67.5°	3967.4	4032.9	4935.9	6837.3	9376.5	10923.5	11600.2	11567.4	11440.9	12368.3	9024.5
70°	3067.3	3091.0	3890.3	5698.0	8376.7	11143.7	12542.9	12526.1	11883.7	12233.5	8281.4
71°	2535.4	2613.2	3428.6	5028.9	7706.8	10940.3	12634.3	12644.3	11772.4	11866.1	7770.0
72.5°	1472.3	1538.6	2485.1	3862.2	6543.1	10091.3	12160.3	12232.0	11252.7	10793.2	6636.8
75°	315.5	337.6	921.3	1869.3	3599.2	7072.8	9598.3	9853.5	9171.5	7342.6	4000.1
77.5°	219.5	237.0	394.8	848.2	1189.6	3494.9	5962.5	6250.5	5479.3	2759.4	1280.3
80°	173.7	193.6	307.9	419.1	321.6	1127.1	2793.0	2969.0	1827.4	615.8	215.7
82.5°	96.8	115.0	240.1	226.4	123.4	214.2	781.8	884.0	365.8	124.2	51.0
85°	28.2	34.3	154.7	164.6	52.5	41.2	133.4	165.3	69.3	32.8	22.8
87.5°	0.0	0.0	74.7	63.3	15.3	6.1	12.2	13.7	13.7	13.7	15.3
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°	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1	3273.1
2.5°	3286.0	3291.3	3272.3	3247.2	3220.5	3187.8	3153.5	3126.7	3126.0	3113.0	3100.1
5°	3326.5	3323.4	3270.8	3190.7	3096.3	2998.0	2904.3	2798.3	2763.2	2719.8	2705.3
7.5°	3401.1	3379.7	3268.5	3093.2	2885.9	2680.2	2467.6	2253.4	2162.0	2079.7	2065.2
10°	3494.9	3454.5	3254.0	2947.0	2566.7	2187.2	1866.3	1575.2	1447.2	1348.9	1344.3
12.5°	3592.4	3530.7	3213.7	2725.9	2148.2	1614.8	1245.2	958.7	852.0	783.4	789.5
15°	3694.5	3602.3	3126.7	2428.0	1671.9	1095.9	765.1	596.7	554.0	536.5	541.0
17.5°	3798.9	3651.9	3005.6	2069.1	1201.8	707.2	529.7	482.4	482.4	486.2	487.8
20°	3889.6	3678.5	2827.2	1666.6	814.6	515.1	463.4	456.5	460.3	466.4	467.2
22.5°	3979.5	3680.0	2594.8	1258.9	570.0	451.1	441.3	438.2	440.4	447.3	448.1
25°	4052.7	3661.7	2303.7	895.4	455.0	425.3	420.7	419.1	420.7	429.1	429.1
27.5°	4082.4	3595.4	1948.6	629.4	407.7	396.3	394.8	396.3	398.5	404.7	405.4
30°	4085.5	3479.6	1561.5	455.7	369.6	357.4	360.4	365.8	363.5	362.0	363.5
32.5°	4093.0	3345.5	1184.3	374.9	337.6	318.6	314.8	314.8	305.5	300.2	297.2
35°	4118.2	3187.8	858.9	336.8	304.8	282.7	268.3	251.5	233.9	224.8	222.5
37.5°	4157.9	3022.4	615.0	311.7	275.8	250.7	223.3	193.6	168.4	161.5	161.5
40°	4230.3	2851.7	455.0	291.9	253.0	221.8	180.6	141.8	118.9	115.0	115.0
42.5°	4344.6	2671.8	362.7	274.3	233.2	192.1	138.0	102.8	86.1	83.8	83.1
45°	4463.4	2473.6	317.0	257.6	211.8	157.7	102.1	76.2	66.3	64.0	64.0
47.5°	4582.3	2262.5	294.9	241.6	191.2	122.7	76.2	60.2	55.6	55.6	56.4
50°	4682.9	2042.3	278.9	224.0	164.6	93.0	60.2	51.0	49.6	52.5	53.4
52.5°	4708.0	1825.9	259.1	202.0	131.8	70.9	49.6	45.0	45.0	45.0	45.0
55°	4692.9	1658.2	233.2	174.5	97.5	56.4	42.7	39.6	38.8	38.8	38.8
57.5°	4744.7	1559.2	186.7	135.6	70.1	45.7	37.4	35.0	33.5	32.8	32.8
60°	4849.1	1494.4	133.4	97.5	52.5	38.1	32.0	29.7	27.5	25.9	25.9
62.5°	4987.8	1438.0	99.0	72.4	40.4	30.5	26.6	24.4	21.3	19.8	19.8
65°	5094.4	1337.4	75.5	54.1	30.5	24.4	20.6	19.8	15.3	13.7	12.9
67.5°	4931.3	1116.5	60.9	39.6	22.8	19.1	16.0	15.3	9.1	7.6	7.6
70°	4229.5	777.3	48.8	29.0	16.8	15.3	12.9	9.9	6.9	6.1	6.1
71°	3835.5	649.3	44.2	24.4	14.4	14.4	12.2	8.4	6.1	5.3	5.3
72.5°	3186.2	461.0	37.4	19.1	12.9	15.3	12.9	7.6	6.1	5.3	4.6
75°	1849.5	192.8	25.9	12.9	9.9	18.3	16.8	6.9	4.6	3.8	3.8
77.5°	556.3	70.9	14.4	8.4	7.6	16.0	19.1	6.1	2.3	0.7	0.7
80°	101.4	30.5	9.1	5.3	5.3	9.9	14.4	3.1	0.0	0.0	0.0
82.5°	35.8	15.3	5.3	3.1	2.3	4.6	6.9	0.0	0.0	0.0	0.0
85°	20.6	10.7	3.1	1.5	0.0	0.7	1.5	0.0	0.0	0.0	0.0
87.5°	13.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)