

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: P383146

Luminaire Tested: **GLEON-SA4D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20741.8 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

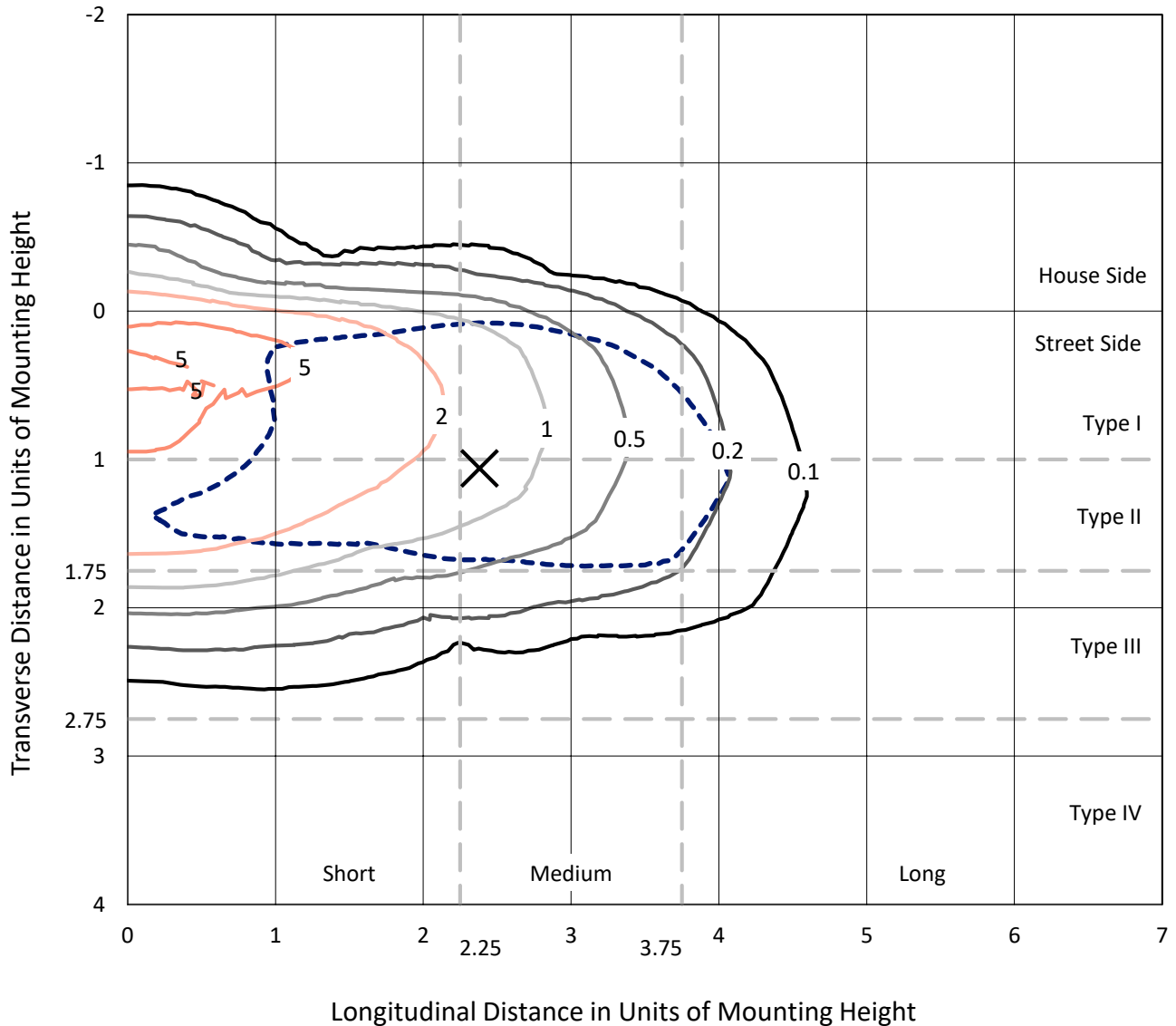
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

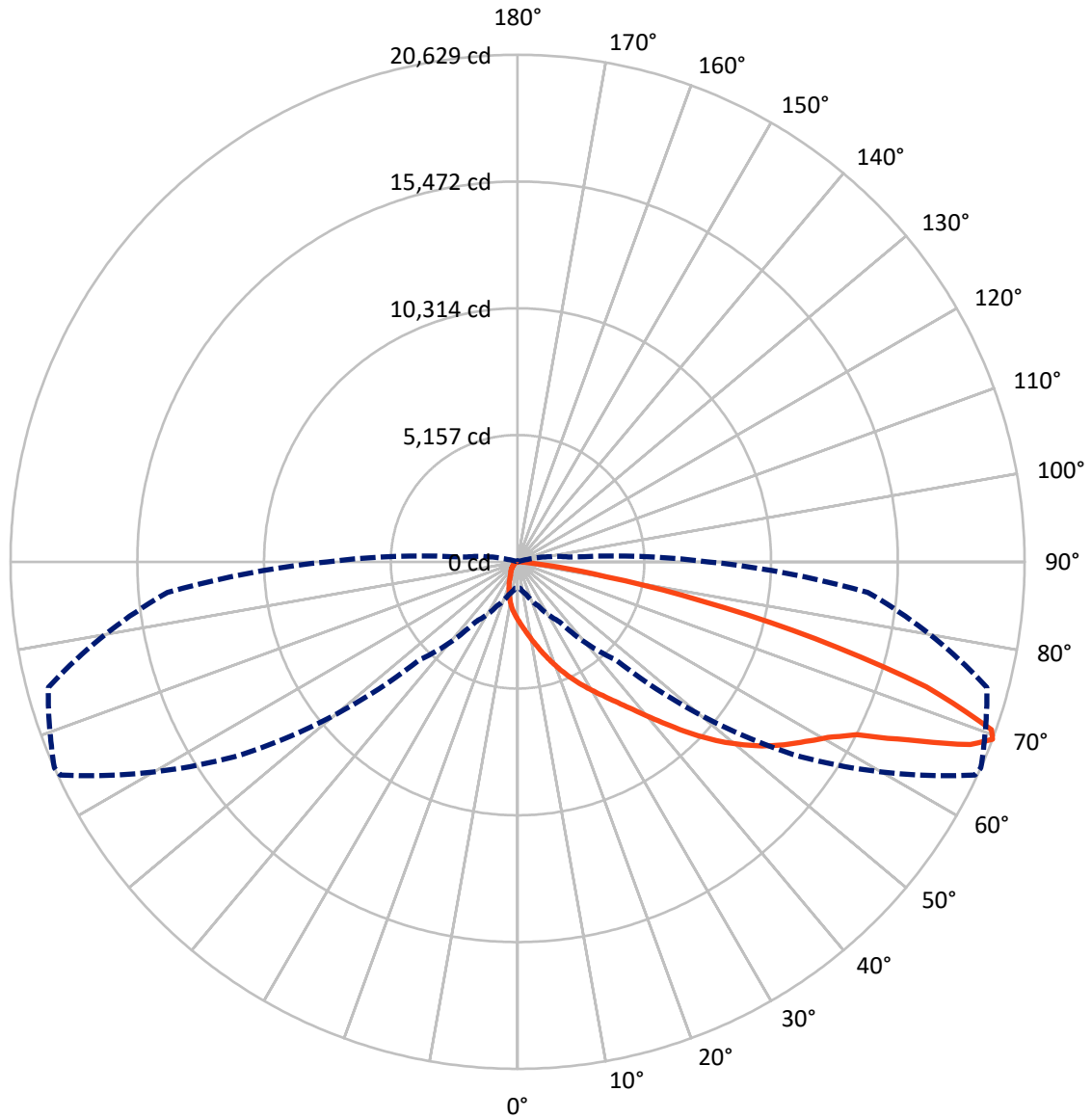
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - 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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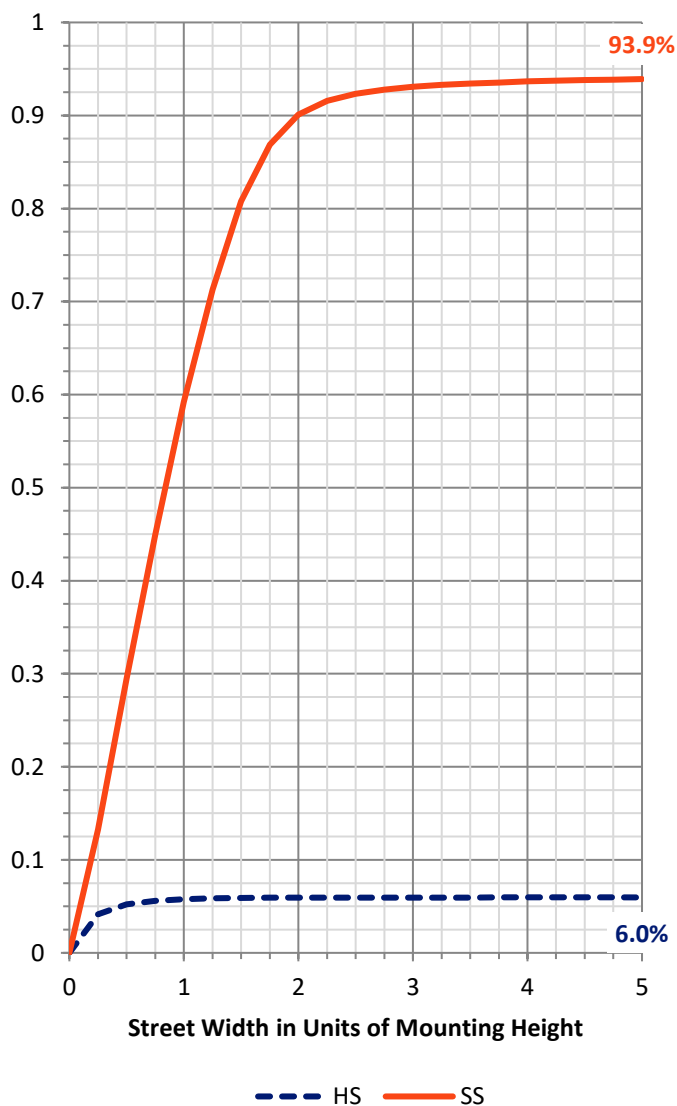
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1244.2	0.0	1244.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	19497.6	0.0	19497.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	20741.8	0.0	20741.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	1.1
10°-20°	679.1	3.3
20°-30°	1182.5	5.7
30°-40°	2074.8	10.0
40°-50°	3472.8	16.7
50°-60°	5104.7	24.6
60°-70°	5241.2	25.3
70°-80°	2587.5	12.5
80°-90°	171.1	0.8
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°	20741.8	100.0
0°-180°	20741.8	100.0

Coefficient of Utilization

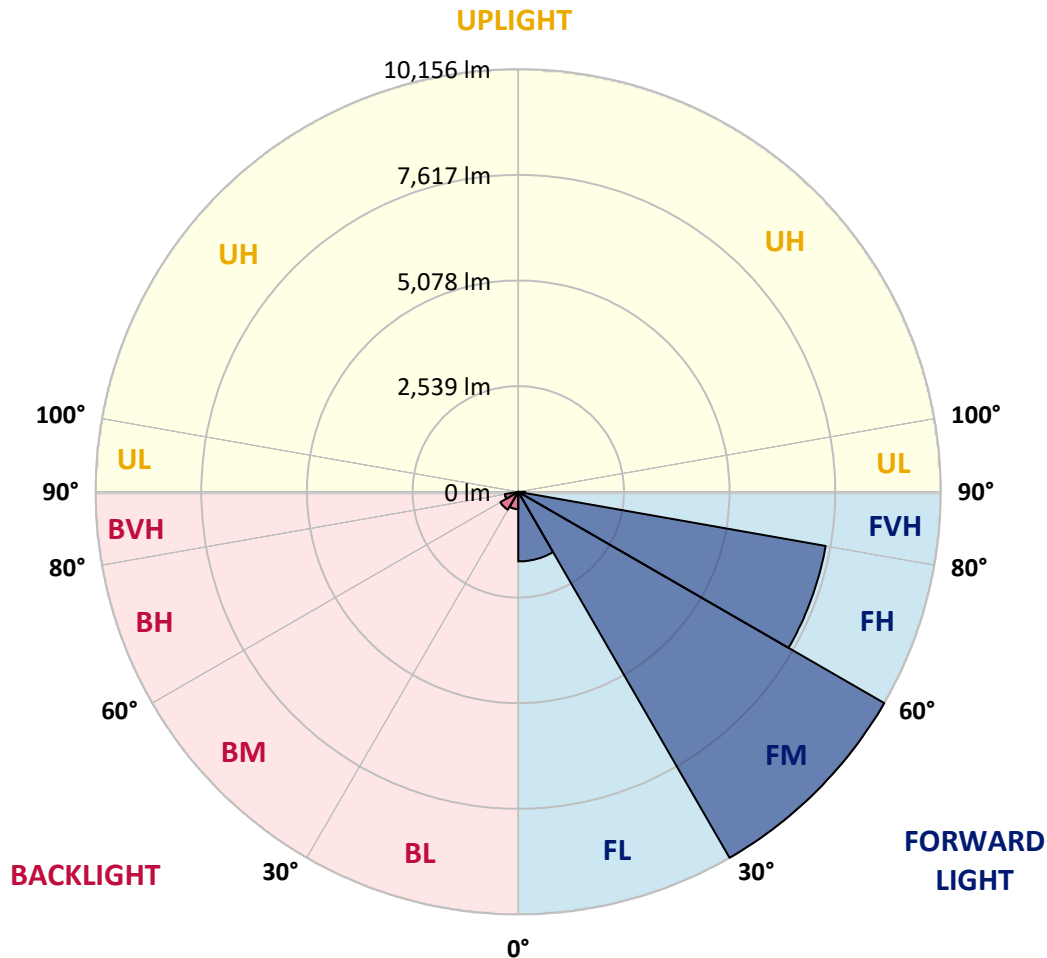


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1673.7	8.1			
FM (30°-60°)	10156.2	49.0			
FH (60°-80°)	7500.8	36.2			G4/12000
FVH (80°-90°)	166.9	0.8			G2/225
BL (0°-30°)	416.1	2.0	B1/500		
BM (30°-60°)	496.1	2.4	B1/1000		
BH (60°-80°)	327.9	1.6	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2778.2	2766.4	2761.5	2739.8	2702.3	2673.8	2618.6	2554.6	2542.8	2480.7	2404.8
5°	3138.8	3128.9	3122.0	3091.5	3053.1	2981.1	2880.6	2761.5	2738.7	2620.5	2468.9
7.5°	3390.0	3407.7	3407.7	3388.0	3339.8	3285.6	3162.4	2999.9	2971.3	2790.0	2554.6
10°	3536.8	3558.4	3575.2	3592.0	3585.1	3563.4	3447.1	3263.9	3229.4	2989.1	2654.1
12.5°	3550.6	3572.3	3619.5	3689.5	3757.5	3806.8	3733.8	3556.5	3517.1	3219.5	2772.3
15°	3473.7	3496.4	3569.3	3705.2	3869.7	4013.6	4037.2	3880.6	3840.2	3494.4	2920.0
17.5°	3339.8	3354.5	3458.9	3647.1	3905.2	4169.2	4312.1	4228.4	4190.9	3808.7	3084.6
20°	3240.3	3251.1	3342.7	3544.6	3883.5	4266.8	4572.2	4597.8	4558.4	4145.7	3262.9
22.5°	3410.7	3430.4	3433.3	3528.9	3824.5	4315.1	4800.7	4961.3	4931.8	4503.3	3438.2
25°	3876.6	3899.4	3824.5	3765.3	3874.7	4336.7	4996.8	5333.8	5310.1	4888.5	3614.6
27.5°	4492.4	4516.0	4419.5	4243.2	4137.7	4418.5	5171.2	5712.1	5711.0	5296.3	3804.7
30°	5097.3	5121.0	5022.4	4846.1	4603.7	4650.0	5321.9	6108.1	6114.0	5717.0	4006.7
32.5°	5731.8	5761.3	5659.9	5433.3	5180.1	5050.0	5533.8	6506.1	6539.7	6204.7	4234.3
35°	6452.9	6456.8	6314.0	6076.6	5785.0	5585.0	5873.6	6952.4	7032.2	6808.6	4522.9
37.5°	7160.2	7188.8	7071.7	6697.3	6429.3	6202.7	6379.1	7510.0	7623.3	7546.5	4900.3
40°	7684.4	7744.5	7727.7	7323.8	7069.6	6908.1	7006.6	8173.0	8316.9	8405.5	5376.1
42.5°	8013.5	8058.7	8135.6	7892.3	7661.7	7688.3	7747.4	8945.5	9122.7	9384.8	5922.9
45°	8390.7	8412.4	8476.4	8369.1	8213.5	8481.4	8533.6	9815.3	10001.6	10438.0	6529.8
47.5°	8851.8	8903.1	8920.8	8822.3	8751.3	9182.8	9291.3	10606.4	10867.5	11566.0	7172.1
50°	9439.0	9452.8	9483.3	9419.3	9348.4	9785.8	9971.0	11437.0	11674.3	12697.9	7805.5
52.5°	10013.4	10062.6	10169.1	10128.6	10100.0	10299.1	10576.9	12185.7	12450.7	13641.8	8438.1
55°	10178.8	10221.2	10588.7	10840.0	11072.5	10931.5	11156.1	12856.6	13143.3	14485.1	9046.9
57.5°	9517.8	9603.5	10239.9	10894.1	11858.6	11914.8	11952.2	13545.3	13802.4	15131.3	9680.4
60°	7847.0	7863.7	8908.0	10030.1	11728.6	12772.8	13114.7	14285.1	14500.8	15733.3	10438.9
62.5°	4991.0	5161.3	6307.1	7891.3	10353.2	12648.7	14520.6	15404.3	15483.1	16455.4	11526.6
65°	2377.2	2487.6	3313.1	4875.6	7499.1	11059.6	15491.0	17428.8	17464.3	17886.9	12979.7
67.5°	1316.2	1369.4	1762.5	2624.5	4384.0	7821.4	15098.8	19826.7	19860.2	19348.9	14254.5
69°	1029.5	1074.8	1384.2	1978.2	2972.3	5621.4	13663.5	20529.2	20628.7	19767.6	14299.9
70°	873.9	918.2	1192.1	1670.8	2390.1	4343.6	12162.0	20354.8	20460.2	19728.2	13961.9
72.5°	535.0	560.6	794.1	1176.3	1601.9	2185.1	7500.2	17214.1	17392.4	18096.7	11999.5
75°	360.6	374.4	496.5	811.8	1145.8	1125.0	3896.4	12133.5	12519.6	14077.2	8862.7
77.5°	258.1	270.9	333.0	525.1	802.9	742.8	1764.4	7540.6	7623.3	8443.0	4833.2
80°	146.8	158.6	235.5	312.3	544.8	495.6	701.5	3601.8	3643.2	3620.6	1613.7
82.5°	76.9	86.7	129.0	205.9	349.7	324.1	291.6	1205.9	1211.8	1007.8	353.7
85°	14.8	17.7	64.0	140.8	180.3	140.8	119.2	282.7	288.7	255.2	87.7
87.5°	0.0	1.0	25.6	31.5	35.5	36.4	38.4	55.1	59.2	79.8	23.7
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°	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2371.3	2335.9	2267.9	2189.0	2128.0	2067.8	2020.6	1971.3	1953.6	1944.7	1943.8
5°	2395.0	2320.1	2176.3	2028.4	1907.3	1793.0	1711.3	1633.5	1597.0	1580.2	1573.3
7.5°	2434.4	2314.2	2082.7	1857.0	1682.7	1539.8	1426.6	1341.8	1299.4	1281.7	1274.8
10°	2480.7	2306.3	1973.3	1675.8	1453.1	1305.4	1193.0	1109.3	1063.0	1043.3	1033.5
12.5°	2534.8	2292.5	1847.2	1492.5	1257.1	1109.3	973.4	869.9	816.7	794.1	783.2
15°	2601.8	2278.8	1715.2	1320.1	1084.7	904.4	755.7	685.7	674.8	670.9	671.9
17.5°	2667.9	2257.0	1571.3	1149.7	903.4	706.4	630.5	626.6	628.5	628.5	628.5
20°	2727.0	2207.8	1414.7	1003.9	731.0	596.0	580.3	573.4	568.4	564.5	559.6
22.5°	2773.3	2141.8	1264.0	859.1	597.0	545.8	521.2	499.5	481.8	470.0	464.0
25°	2804.8	2054.1	1126.1	720.2	536.9	496.5	452.2	415.7	388.2	371.4	364.5
27.5°	2828.5	1959.5	1002.9	602.9	495.6	439.4	381.3	337.9	309.4	294.6	288.7
30°	2845.2	1852.1	894.6	530.1	449.3	379.3	317.2	274.9	254.2	246.3	242.4
32.5°	2861.0	1733.0	792.1	495.6	405.9	324.1	266.0	233.4	220.7	210.8	207.8
35°	2900.4	1622.6	694.6	459.1	361.5	276.9	228.6	204.9	192.1	186.2	184.3
37.5°	2994.0	1540.8	600.9	421.6	317.2	239.4	200.0	183.2	171.4	165.5	163.6
40°	3144.7	1499.4	522.1	381.3	273.9	210.8	181.3	165.5	152.7	143.8	141.9
42.5°	3366.3	1505.4	467.0	340.9	239.4	188.2	163.6	144.9	131.1	123.2	121.2
45°	3635.3	1548.7	428.5	301.4	210.8	170.5	143.8	124.2	111.3	104.4	102.5
47.5°	3926.9	1618.7	397.0	266.0	188.2	153.7	124.2	103.4	92.6	86.7	85.7
50°	4234.3	1686.7	364.5	231.5	168.4	136.9	104.4	85.7	76.9	71.9	70.0
52.5°	4545.6	1765.5	335.0	200.0	151.7	117.3	86.7	70.0	63.1	59.2	57.1
55°	4880.6	1824.5	306.4	175.3	135.0	99.5	71.9	58.1	52.3	47.3	46.3
57.5°	5274.6	1916.2	276.9	151.7	115.2	82.7	59.2	46.3	41.4	36.4	35.5
60°	5806.6	2023.6	245.3	134.0	94.6	68.0	48.3	37.4	31.5	27.6	26.6
62.5°	6508.1	2142.7	205.9	117.3	76.9	55.1	38.4	29.5	22.6	17.7	17.7
65°	7397.7	2336.9	168.4	98.6	63.1	45.3	29.5	21.7	12.8	7.9	7.9
67.5°	7916.9	2370.3	135.9	80.8	51.2	38.4	24.6	14.8	3.9	1.0	0.0
69°	7750.4	2176.3	115.2	68.9	44.3	36.4	22.6	10.8	2.0	0.0	0.0
70°	7437.1	1990.1	101.4	61.1	40.4	34.5	21.7	7.9	2.0	0.0	0.0
72.5°	6145.5	1416.7	76.9	45.3	29.5	30.6	19.7	4.9	2.0	0.0	0.0
75°	4476.6	861.0	55.1	31.5	18.7	22.6	13.8	2.0	1.0	0.0	0.0
77.5°	2490.5	405.9	34.5	17.7	11.8	13.8	6.9	0.0	0.0	0.0	0.0
80°	808.9	110.3	15.7	9.9	6.9	7.9	3.0	0.0	0.0	0.0	0.0
82.5°	149.8	31.5	8.8	4.9	2.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	32.5	12.8	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	3.9	1.0	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)