

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: P269007

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL4-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4821 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 67
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: 25 FT

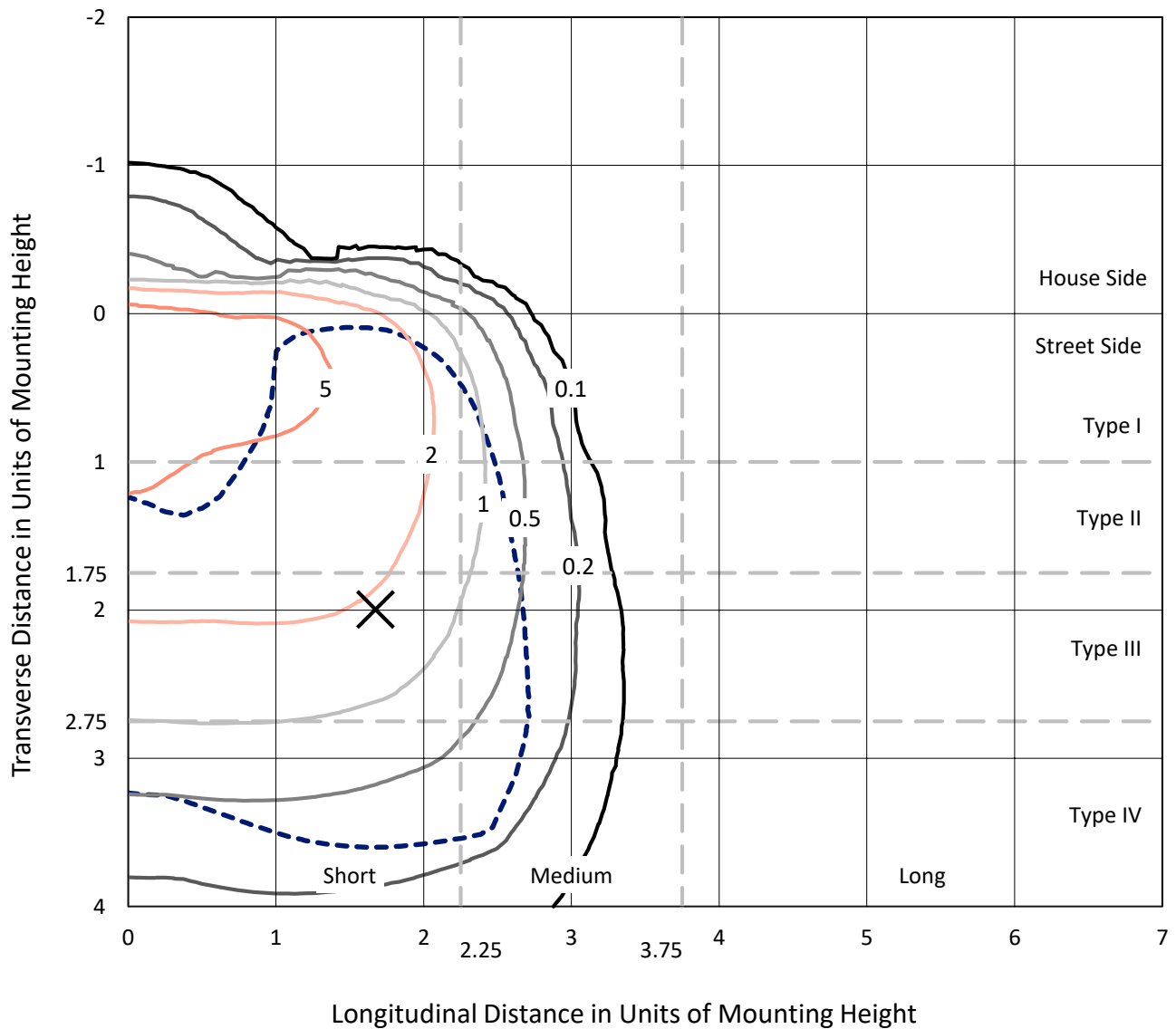


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

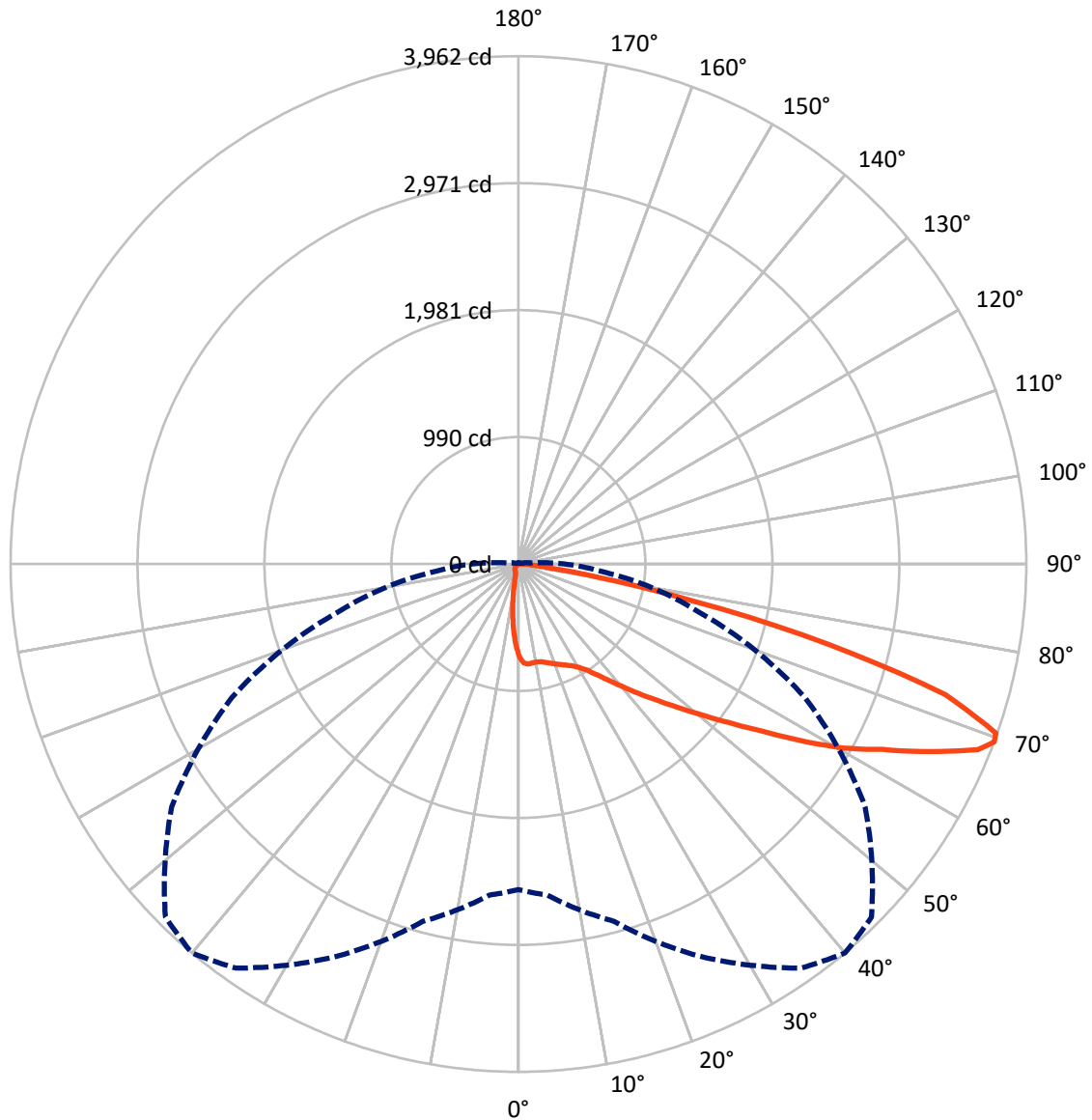


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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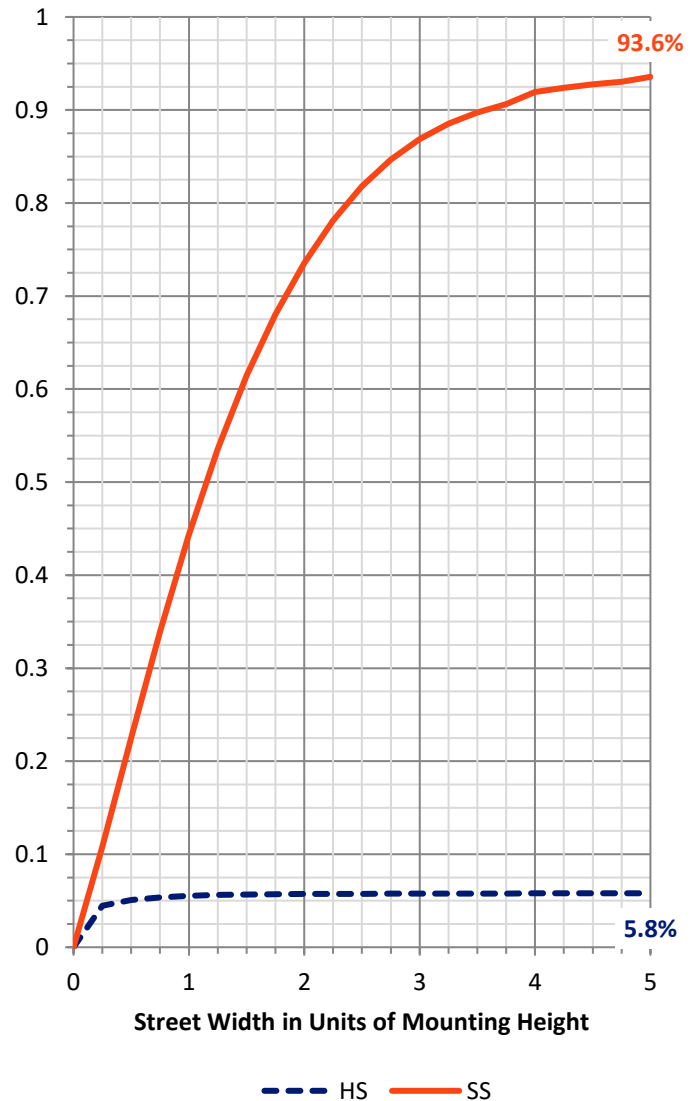
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	282.1	0.0	282.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4539.0	0.0	4539.0
	% Fixture	94.1	0.0	94.1
Total	Lumens	4821.0	0.0	4821.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.2
10°-20°	143.6	3.0
20°-30°	241.9	5.0
30°-40°	396.0	8.2
40°-50°	685.7	14.2
50°-60°	1080.0	22.4
60°-70°	1410.4	29.3
70°-80°	726.4	15.1
80°-90°	78.6	1.6
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°	4821.0	100.0
0°-180°	4821.0	100.0



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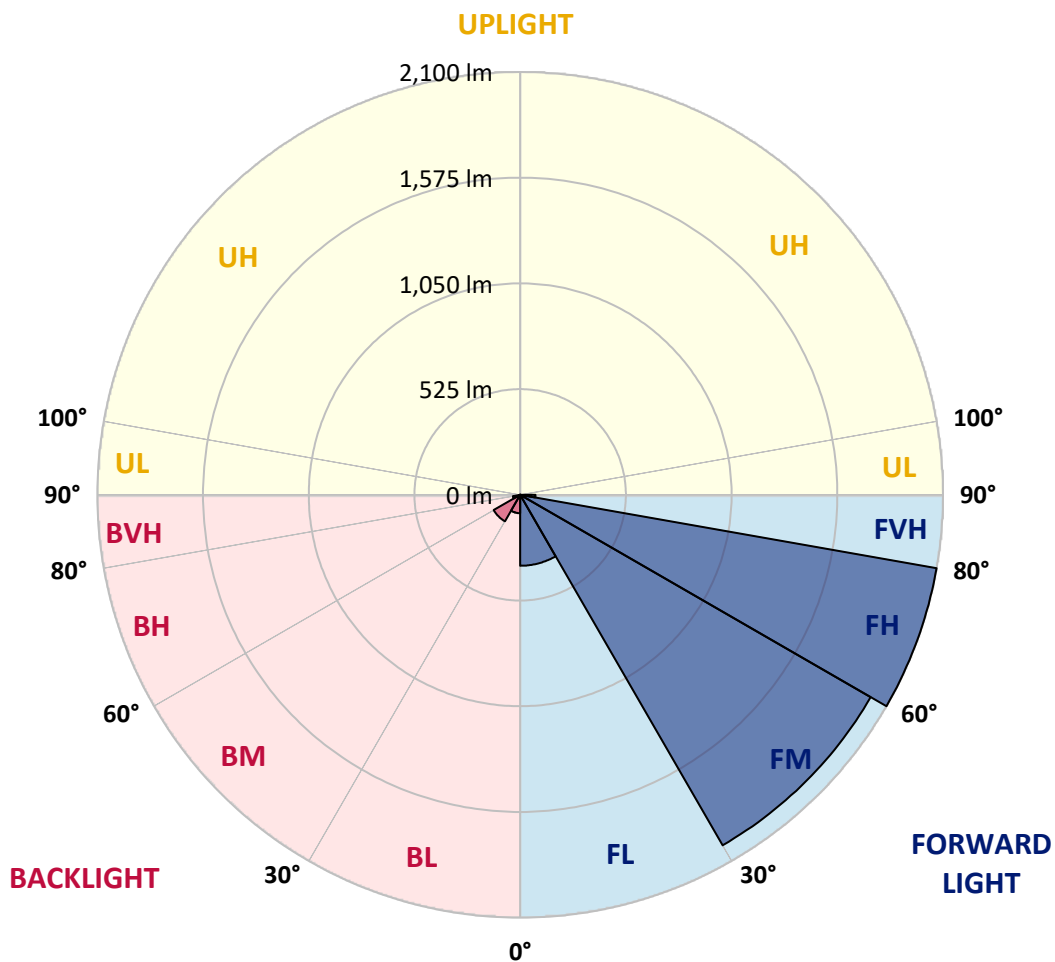
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	352.6	7.3			
FM	(30°-60°)	2010.1	41.7			
FH	(60°-80°)	2100.2	43.6			G2/5000
FVH	(80°-90°)	76.1	1.6			G1/100
BL	(0°-30°)	91.4	1.9	B0/110		
BM	(30°-60°)	151.6	3.1	B0/220		
BH	(60°-80°)	36.6	0.8	B0/110		G0/110
BVH	(80°-90°)	2.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4
2.5°	790.9	786.6	784.0	780.5	776.2	772.5	771.0	760.4	750.4	736.6	720.9
5°	805.5	804.2	799.5	794.9	789.7	784.0	780.8	768.2	753.9	733.7	706.2
7.5°	806.9	805.2	799.5	793.2	785.9	779.1	773.7	761.0	747.7	727.4	693.9
10°	804.6	802.6	798.4	791.4	782.6	776.0	770.4	758.4	747.3	728.9	691.5
12.5°	802.0	800.1	798.1	794.6	786.8	782.2	777.8	766.3	756.2	740.7	699.9
15°	804.6	803.5	805.8	804.3	800.1	796.1	791.4	781.2	772.0	759.0	715.1
17.5°	815.5	815.5	822.8	823.6	819.6	813.9	807.2	796.8	789.2	778.2	733.1
20°	841.2	840.3	849.3	851.1	841.4	832.5	822.8	810.1	804.2	797.2	751.1
22.5°	885.0	881.0	886.4	884.7	865.4	851.8	839.6	824.1	821.1	817.8	770.7
25°	942.1	939.8	943.6	926.6	892.7	874.1	859.8	842.3	842.3	845.5	793.2
27.5°	1025.1	1016.4	1003.9	973.9	923.2	899.4	883.8	865.2	870.1	881.9	822.8
30°	1109.9	1100.6	1071.6	1025.7	960.2	935.2	917.2	897.6	909.2	930.6	862.4
32.5°	1193.8	1183.2	1142.1	1084.2	1013.3	988.3	970.8	949.2	968.6	1004.7	920.4
35°	1275.1	1265.5	1218.2	1149.9	1083.8	1063.2	1047.2	1028.5	1053.2	1103.7	1002.1
37.5°	1366.2	1355.9	1298.2	1224.2	1169.7	1154.7	1143.1	1124.4	1167.3	1241.4	1116.1
40°	1478.5	1461.0	1383.2	1309.4	1268.9	1261.8	1253.8	1251.2	1318.1	1420.5	1267.8
42.5°	1607.0	1578.3	1472.1	1399.3	1378.0	1383.2	1381.1	1392.6	1506.5	1643.2	1452.6
45°	1735.5	1698.5	1571.1	1495.0	1498.0	1516.1	1527.3	1573.1	1742.7	1898.6	1651.5
47.5°	1844.6	1808.2	1666.1	1598.8	1633.1	1668.7	1699.1	1786.1	1985.6	2150.0	1806.2
50°	1938.0	1903.5	1766.8	1712.6	1790.1	1847.5	1896.9	2025.7	2246.8	2341.3	1914.6
52.5°	2014.2	1991.3	1871.3	1843.2	1969.4	2053.5	2125.8	2280.3	2478.0	2496.8	1999.0
55°	2088.6	2072.2	1983.5	1998.4	2180.0	2294.6	2386.2	2550.3	2677.0	2626.6	2079.9
57.5°	2174.1	2159.2	2111.5	2195.3	2457.0	2601.0	2700.9	2789.5	2852.5	2759.2	2156.3
60°	2261.4	2252.7	2253.8	2413.9	2775.0	2913.4	2968.4	2991.4	3024.7	2884.0	2160.6
62.5°	2344.5	2360.8	2416.5	2657.4	3079.4	3185.6	3213.4	3236.1	3197.1	2903.9	1996.2
65°	2485.4	2512.1	2645.0	2983.0	3414.4	3528.0	3556.7	3478.9	3224.3	2647.8	1623.6
67.5°	2554.3	2603.1	2840.1	3286.5	3739.1	3865.4	3854.8	3494.6	2893.5	2019.1	1041.9
69°	2540.0	2591.9	2885.1	3379.7	3847.1	3961.5	3894.2	3301.6	2465.0	1462.7	639.7
70°	2483.2	2535.6	2861.9	3376.2	3860.8	3951.6	3821.3	3063.1	2084.2	1069.5	400.0
72.5°	2073.6	2118.9	2540.8	3051.6	3556.7	3482.9	3196.8	2122.2	1015.5	291.3	90.1
75°	1276.4	1301.6	1823.1	2298.9	2686.3	2496.8	2129.9	1055.8	302.8	82.4	49.9
77.5°	674.4	685.9	998.0	1355.1	1702.8	1409.0	1091.6	411.9	139.4	51.7	36.1
80°	398.6	407.2	537.5	619.7	736.9	615.6	436.4	252.9	99.8	32.3	32.1
82.5°	228.1	233.6	389.8	344.4	290.4	247.9	217.2	239.6	59.9	21.7	33.2
85°	83.8	84.9	219.2	261.9	172.7	102.8	107.8	198.5	16.1	13.7	26.1
87.5°	39.0	38.2	112.7	160.3	101.0	65.1	84.1	43.6	6.3	9.0	7.1
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°	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4	720.4
2.5°	711.6	701.0	681.9	662.1	642.0	626.5	611.2	599.2	595.1	587.8	588.3
5°	689.9	670.3	630.3	589.5	547.0	511.9	478.9	452.2	439.4	426.2	426.2
7.5°	670.9	642.5	579.6	513.4	444.8	387.1	335.2	296.1	274.6	257.5	257.2
10°	663.8	625.3	537.5	442.5	346.9	268.4	206.6	167.1	146.7	133.5	132.9
12.5°	666.9	619.3	505.0	377.1	257.2	172.5	119.7	94.1	85.5	81.4	81.4
15°	676.2	617.6	472.7	313.1	181.6	107.8	79.5	72.7	72.0	72.0	72.0
17.5°	687.4	618.2	439.4	250.7	123.6	77.3	68.6	67.7	68.4	68.4	68.4
20°	698.7	618.5	403.5	193.1	87.2	67.2	64.6	64.3	64.9	64.9	65.1
22.5°	712.9	619.8	367.5	144.4	72.0	63.4	61.4	61.4	61.8	61.8	61.4
25°	728.9	622.7	330.2	107.1	65.8	60.8	59.1	58.7	59.1	58.7	58.5
27.5°	748.9	626.7	288.6	83.8	62.8	58.3	56.9	56.9	56.6	56.2	56.0
30°	774.2	631.2	242.0	71.1	59.9	56.0	54.5	54.3	54.0	53.4	53.4
32.5°	812.6	641.4	195.7	64.6	56.9	52.8	51.7	51.7	51.1	50.6	50.2
35°	871.9	661.2	154.4	60.5	53.4	49.3	47.9	47.9	47.3	47.2	46.8
37.5°	953.6	691.2	120.0	56.9	49.9	45.6	44.1	43.8	43.3	42.8	42.5
40°	1062.3	728.6	94.4	53.4	46.5	42.0	40.8	40.2	39.0	38.2	38.2
42.5°	1199.0	771.0	76.6	49.6	42.5	38.4	37.5	36.7	34.8	33.9	33.5
45°	1341.9	809.3	64.9	45.4	38.4	35.0	34.5	33.0	30.5	29.6	29.6
47.5°	1444.8	818.1	57.1	41.3	34.8	31.4	31.0	28.3	26.1	25.5	25.2
50°	1509.2	800.6	50.8	37.3	31.4	27.8	26.9	23.9	22.4	21.7	21.5
52.5°	1552.5	769.4	45.6	33.9	28.1	24.7	22.6	20.4	19.3	18.7	18.7
55°	1587.2	725.1	40.5	30.7	25.5	22.1	19.3	17.4	16.3	15.8	15.8
57.5°	1596.9	665.1	35.4	28.1	22.9	19.6	16.3	15.2	13.7	13.5	13.5
60°	1526.1	556.9	31.4	25.0	20.8	17.0	14.4	12.9	11.5	11.1	10.9
62.5°	1339.3	431.0	27.6	22.1	18.1	14.6	12.3	10.6	9.4	9.4	9.4
65°	1021.6	289.0	24.2	19.3	15.8	12.3	10.6	8.7	8.1	8.1	8.4
67.5°	611.6	157.3	20.8	16.3	13.5	10.3	9.0	7.5	7.1	7.5	7.5
69°	358.5	92.3	18.7	14.6	11.8	9.3	7.7	6.6	7.1	7.5	7.5
70°	221.3	62.3	17.2	13.1	10.6	8.4	7.1	6.3	6.8	7.1	7.1
72.5°	61.8	32.1	13.7	10.3	8.7	6.8	5.7	5.7	6.6	6.8	6.8
75°	40.2	23.9	10.6	7.7	6.6	5.5	4.9	5.5	6.3	6.6	6.6
77.5°	33.2	19.6	8.7	6.3	5.5	5.2	4.6	4.9	5.7	6.0	6.0
80°	30.5	13.7	6.8	5.7	4.9	4.6	4.3	4.0	5.2	5.5	5.5
82.5°	28.9	10.9	6.0	5.2	4.6	4.0	3.8	4.0	4.6	4.9	5.2
85°	18.1	7.1	5.5	4.9	4.0	3.8	3.8	3.8	4.3	4.6	4.6
87.5°	6.6	5.7	4.9	4.0	3.5	3.5	3.5	3.5	3.8	4.3	4.3
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)