

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: P269005

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269005
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-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 3551 lumens
Efficiency: N/A
Efficacy: 80.7 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 - G1

Input Watts (W): 44
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

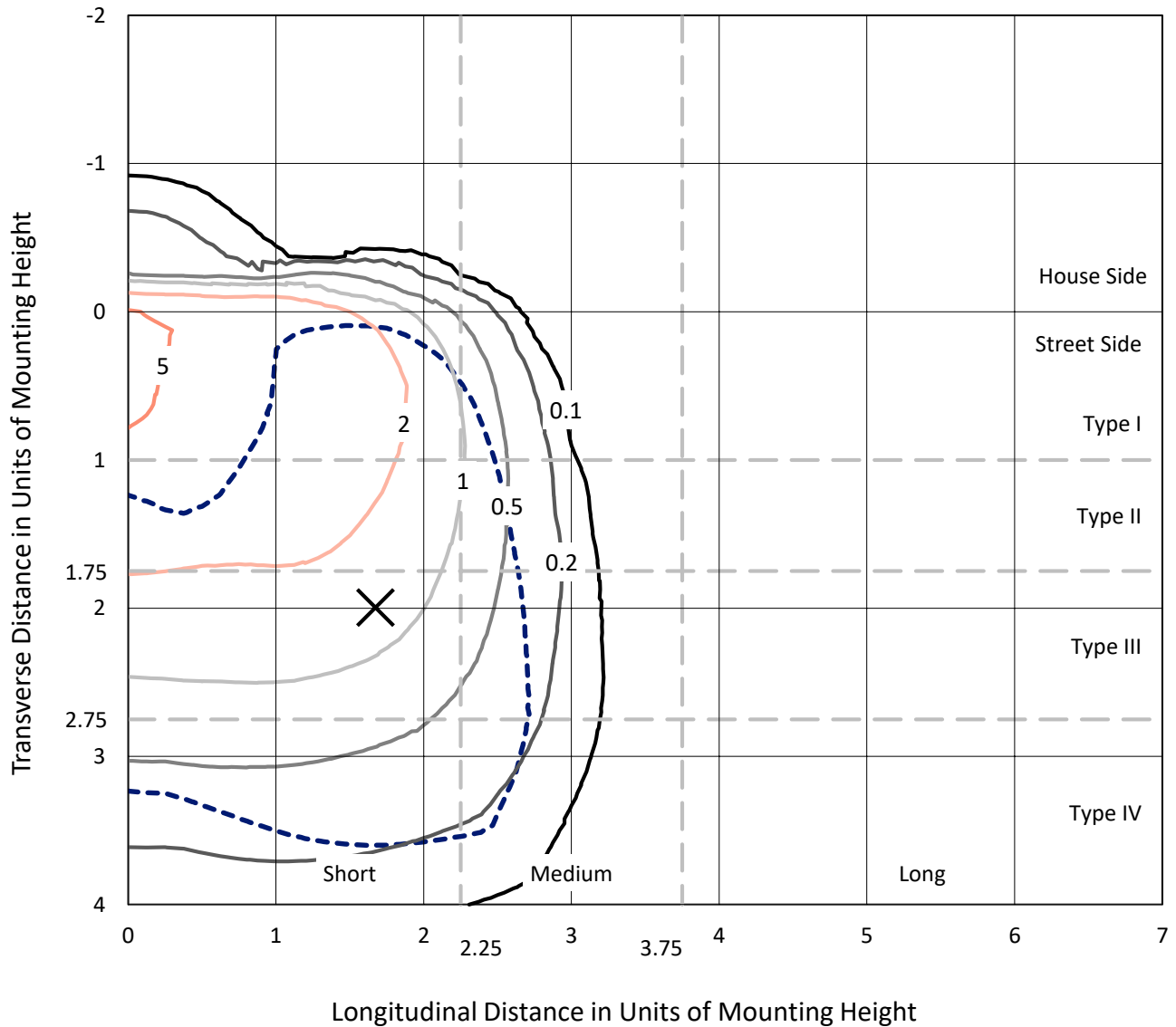


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

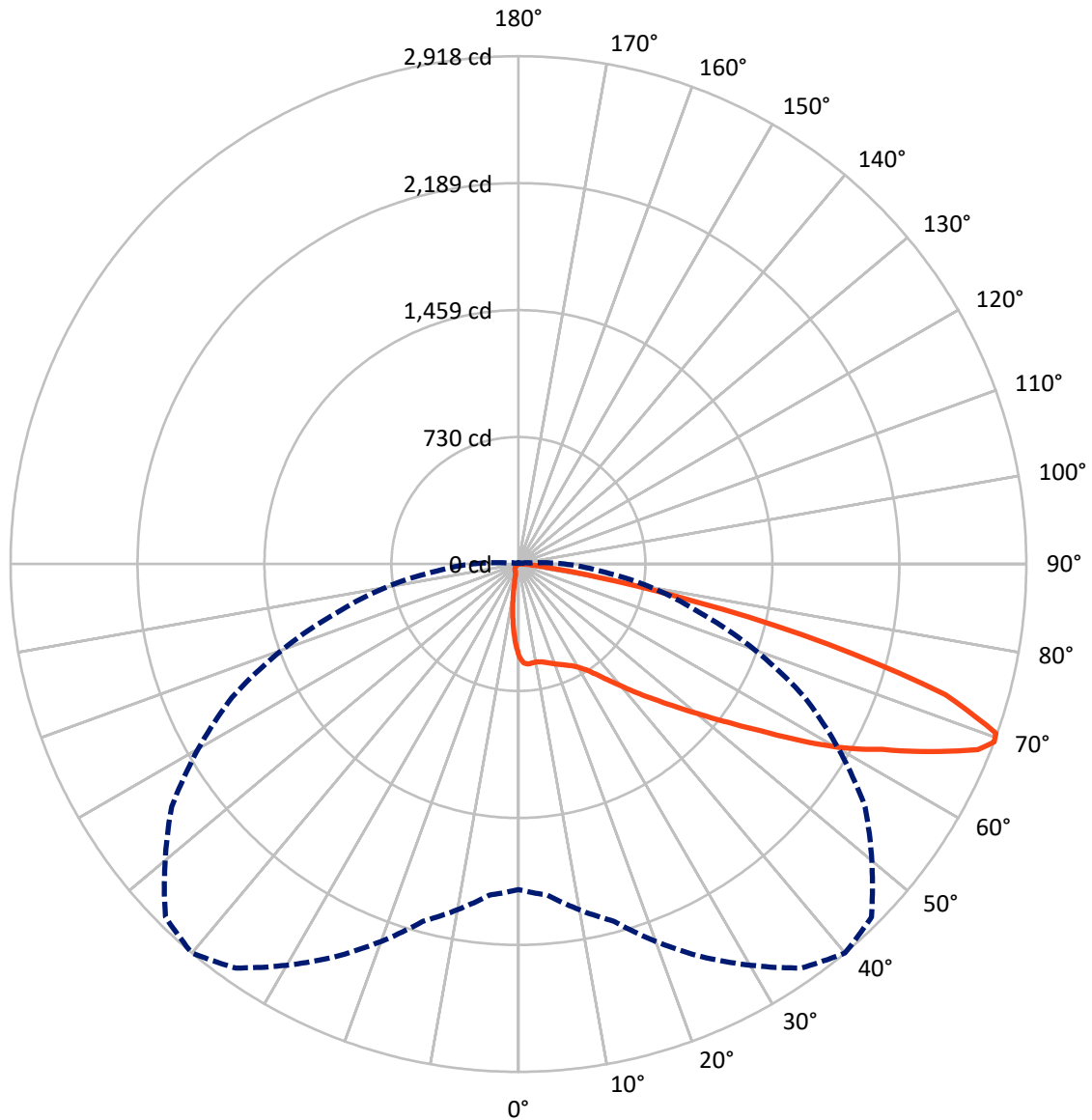


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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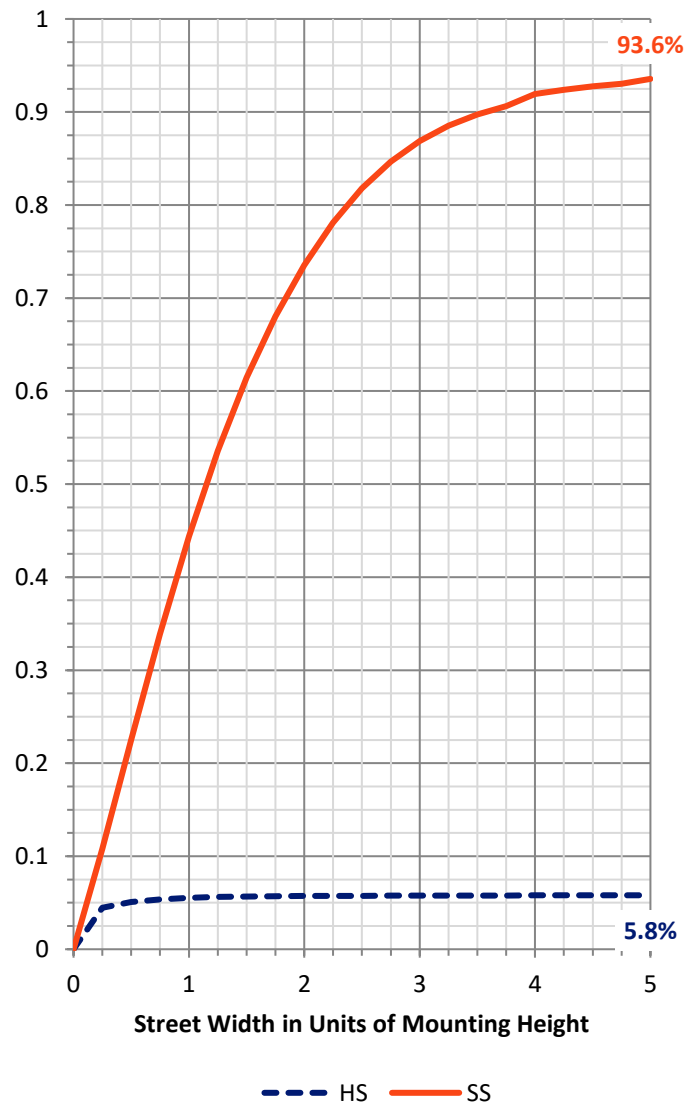
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	207.8	0.0	207.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	3343.2	0.0	3343.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	3551.0	0.0	3551.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.2
10°-20°	105.8	3.0
20°-30°	178.2	5.0
30°-40°	291.7	8.2
40°-50°	505.0	14.2
50°-60°	795.5	22.4
60°-70°	1038.9	29.3
70°-80°	535.1	15.1
80°-90°	57.9	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°	3551.0	100.0
0°-180°	3551.0	100.0



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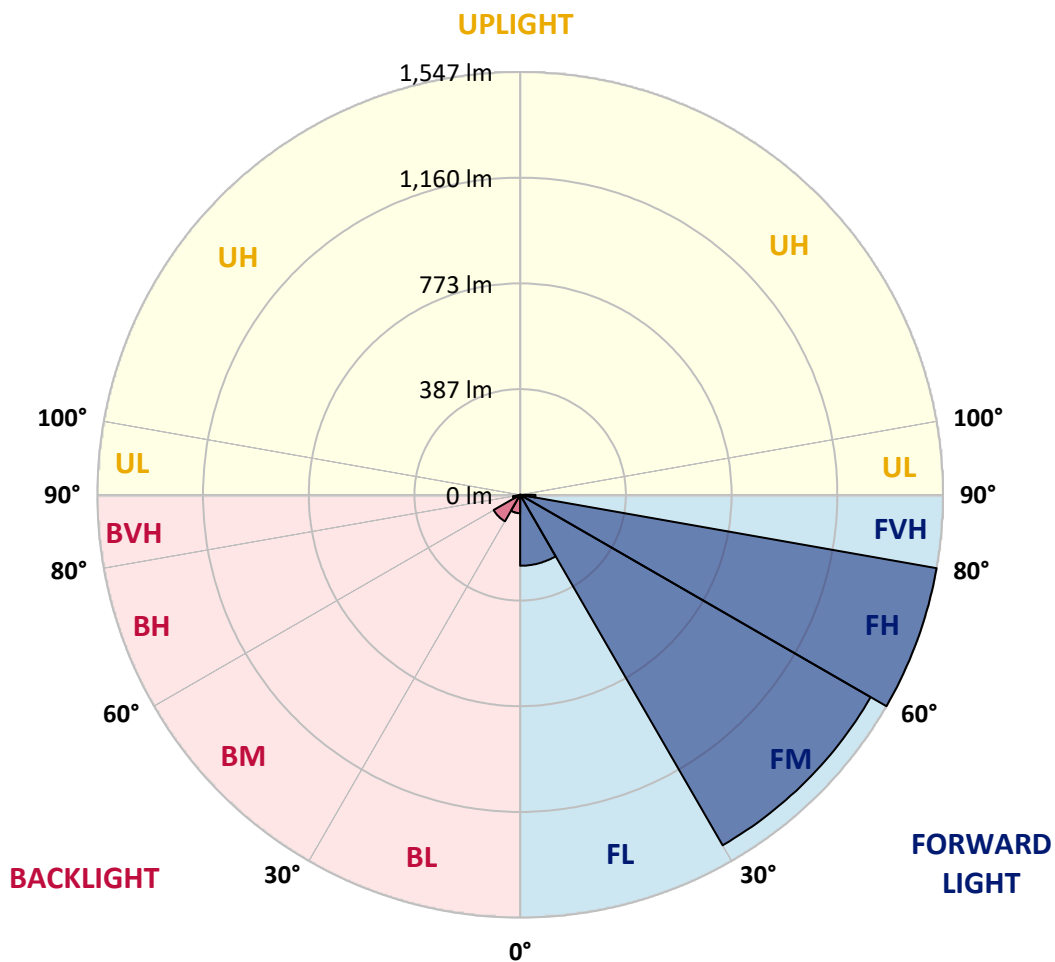
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	259.7	7.3			
FM	(30°-60°)	1480.5	41.7			
FH	(60°-80°)	1547.0	43.6			G1/1800
FVH	(80°-90°)	56.1	1.6			G1/100
BL	(0°-30°)	67.3	1.9	B0/110		
BM	(30°-60°)	111.7	3.1	B0/220		
BH	(60°-80°)	27.0	0.8	B0/110		G0/110
BVH	(80°-90°)	1.8	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4
2.5°	582.6	579.3	577.5	574.9	571.7	568.9	568.0	560.2	552.7	542.5	531.0
5°	593.3	592.3	588.8	585.4	581.7	577.5	575.2	565.8	555.2	540.5	520.2
7.5°	594.4	593.2	588.8	584.2	579.0	573.8	569.9	560.5	550.8	535.7	511.0
10°	592.7	591.3	588.0	583.0	576.4	571.5	567.5	558.7	550.4	536.8	509.3
12.5°	590.7	589.3	587.9	585.2	579.5	576.3	572.8	564.3	556.9	545.5	515.5
15°	592.7	591.9	593.5	592.4	589.3	586.4	583.0	575.4	568.5	559.0	526.8
17.5°	600.6	600.6	605.9	606.6	603.8	599.4	594.6	587.0	581.3	573.3	540.1
20°	619.6	618.9	625.7	626.9	619.7	613.3	605.9	596.7	592.3	587.2	553.1
22.5°	651.9	648.8	652.9	651.6	637.4	627.3	618.5	607.1	604.6	602.5	567.8
25°	693.9	692.2	695.0	682.5	657.6	643.8	633.2	620.4	620.4	622.6	584.2
27.5°	755.0	748.6	739.3	717.3	679.9	662.4	651.0	637.3	640.9	649.6	605.9
30°	817.5	810.6	789.3	755.5	707.2	688.9	675.5	661.2	669.6	685.4	635.1
32.5°	879.4	871.4	841.3	798.6	746.3	727.9	715.1	699.2	713.3	740.1	678.0
35°	939.1	932.1	897.2	846.9	798.4	783.1	771.3	757.5	775.7	813.0	738.0
37.5°	1006.3	998.7	956.2	901.7	861.6	850.5	841.9	828.1	859.9	914.4	821.9
40°	1088.9	1076.1	1018.8	964.5	934.6	929.3	923.5	921.7	970.8	1046.3	933.9
42.5°	1183.6	1162.5	1084.3	1030.6	1014.9	1018.8	1017.3	1025.8	1109.6	1210.2	1069.9
45°	1278.4	1251.1	1157.2	1101.2	1103.4	1116.7	1124.9	1158.8	1283.7	1398.4	1216.5
47.5°	1358.6	1331.8	1227.3	1177.6	1202.9	1229.2	1251.5	1315.6	1462.5	1583.6	1330.4
50°	1427.3	1402.1	1301.5	1261.5	1318.5	1360.8	1397.1	1492.1	1654.8	1724.6	1410.2
52.5°	1483.6	1466.8	1378.3	1357.6	1450.7	1512.6	1565.8	1679.6	1825.1	1839.1	1472.4
55°	1538.3	1526.3	1461.1	1472.1	1605.8	1690.2	1757.5	1878.4	1971.9	1934.7	1532.0
57.5°	1601.3	1590.4	1555.2	1616.9	1809.7	1915.8	1989.3	2054.8	2101.0	2032.3	1588.3
60°	1665.5	1659.3	1660.1	1778.0	2044.0	2145.8	2186.5	2203.4	2227.8	2124.2	1591.3
62.5°	1726.9	1738.8	1779.9	1957.2	2268.2	2346.5	2366.9	2383.7	2354.8	2138.9	1470.3
65°	1830.7	1850.2	1948.2	2197.2	2514.8	2598.5	2619.6	2562.4	2374.9	1950.3	1196.0
67.5°	1881.4	1917.3	2092.0	2420.8	2754.2	2847.2	2839.4	2574.1	2131.3	1487.2	767.5
69°	1870.8	1909.1	2125.1	2489.4	2833.7	2918.0	2868.3	2431.8	1815.7	1077.3	471.2
70°	1828.9	1867.7	2108.1	2486.8	2843.8	2910.6	2814.6	2256.2	1535.2	787.8	294.6
72.5°	1527.4	1560.7	1871.4	2247.6	2619.6	2565.4	2354.6	1563.1	748.1	214.5	66.4
75°	940.2	958.9	1342.8	1693.2	1978.6	1839.1	1568.8	777.7	223.0	60.6	36.8
77.5°	496.8	505.1	735.2	998.0	1254.3	1037.8	804.1	303.3	102.8	38.1	26.6
80°	293.6	299.9	396.0	456.3	542.8	453.4	321.6	186.2	73.5	23.9	23.6
82.5°	168.1	172.0	287.1	253.6	213.8	182.6	160.0	176.4	44.1	16.1	24.6
85°	61.8	62.5	161.4	193.0	127.2	75.6	79.5	146.2	11.9	10.2	19.3
87.5°	28.7	28.0	83.1	118.1	74.4	48.0	62.0	32.1	4.6	6.6	5.3
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°	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4	530.4
2.5°	524.3	516.3	502.2	487.6	472.9	461.4	450.2	441.3	438.5	433.0	433.3
5°	508.1	493.8	464.2	434.2	402.9	377.1	352.8	333.1	323.6	313.9	313.9
7.5°	494.2	473.2	427.0	378.1	327.6	285.1	246.9	218.1	202.3	189.6	189.5
10°	488.9	460.7	396.0	325.9	255.6	197.6	152.3	123.0	107.9	98.3	97.8
12.5°	491.3	456.1	372.0	277.8	189.5	127.0	88.2	69.3	63.1	60.0	60.0
15°	498.0	454.8	348.2	230.7	133.8	79.5	58.6	53.4	53.1	53.1	53.1
17.5°	506.3	455.4	323.6	184.7	91.1	56.9	50.6	49.9	50.3	50.3	50.3
20°	514.6	455.5	297.2	142.2	64.3	49.4	47.6	47.3	47.8	47.8	48.0
22.5°	525.0	456.6	270.7	106.3	53.1	46.7	45.3	45.3	45.5	45.5	45.3
25°	536.8	458.7	243.4	78.8	48.4	44.8	43.6	43.3	43.6	43.3	43.1
27.5°	551.6	461.5	212.5	61.8	46.4	42.8	41.9	41.9	41.6	41.4	41.2
30°	570.2	465.1	178.1	52.5	44.1	41.2	40.2	40.0	39.7	39.3	39.3
32.5°	598.6	472.4	144.2	47.6	41.9	38.8	38.1	38.1	37.5	37.2	37.0
35°	642.2	487.1	113.7	44.6	39.3	36.3	35.4	35.4	34.9	34.7	34.5
37.5°	702.4	509.2	88.4	41.9	36.8	33.5	32.6	32.2	31.9	31.5	31.4
40°	782.6	536.6	69.6	39.3	34.2	30.8	30.1	29.6	28.7	28.0	28.0
42.5°	883.2	568.0	56.5	36.7	31.4	28.3	27.7	27.0	25.6	25.0	24.8
45°	988.3	596.0	47.8	33.3	28.3	25.8	25.3	24.3	22.4	21.7	21.7
47.5°	1064.2	602.7	42.1	30.5	25.6	23.0	22.8	20.9	19.3	18.9	18.7
50°	1111.7	589.6	37.4	27.5	23.0	20.5	19.9	17.5	16.4	16.1	15.9
52.5°	1143.5	566.7	33.5	25.0	20.8	18.1	16.7	15.0	14.2	13.7	13.7
55°	1169.1	534.1	29.9	22.5	18.9	16.3	14.2	12.8	12.0	11.6	11.6
57.5°	1176.3	489.9	26.1	20.8	16.9	14.4	12.0	11.1	10.2	9.9	9.9
60°	1124.0	410.3	23.0	18.3	15.2	12.4	10.6	9.5	8.4	8.3	8.1
62.5°	986.5	317.6	20.3	16.3	13.4	10.8	9.2	7.8	6.9	6.9	6.9
65°	752.5	212.9	17.7	14.2	11.6	9.2	7.8	6.4	5.8	5.8	6.1
67.5°	450.4	115.8	15.2	12.0	9.9	7.6	6.6	5.5	5.3	5.5	5.5
69°	264.0	68.0	13.7	10.8	8.7	6.7	5.7	4.9	5.3	5.5	5.5
70°	163.0	45.9	12.7	9.7	7.8	6.1	5.3	4.6	5.1	5.3	5.3
72.5°	45.5	23.6	10.2	7.6	6.4	5.1	4.2	4.2	4.9	5.1	5.1
75°	29.6	17.5	7.8	5.7	4.9	4.0	3.7	4.0	4.6	4.9	4.9
77.5°	24.6	14.4	6.4	4.6	4.0	3.9	3.4	3.7	4.2	4.4	4.4
80°	22.4	10.2	5.1	4.2	3.7	3.4	3.1	3.0	3.9	4.0	4.0
82.5°	21.4	8.1	4.4	3.9	3.4	3.0	2.8	3.0	3.4	3.7	3.9
85°	13.4	5.3	4.0	3.7	3.0	2.8	2.8	2.8	3.1	3.4	3.4
87.5°	4.9	4.2	3.7	3.0	2.5	2.5	2.5	2.5	2.8	3.1	3.1
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)