

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: P382818

Luminaire Tested: **GLEON-SA1D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5374.1 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

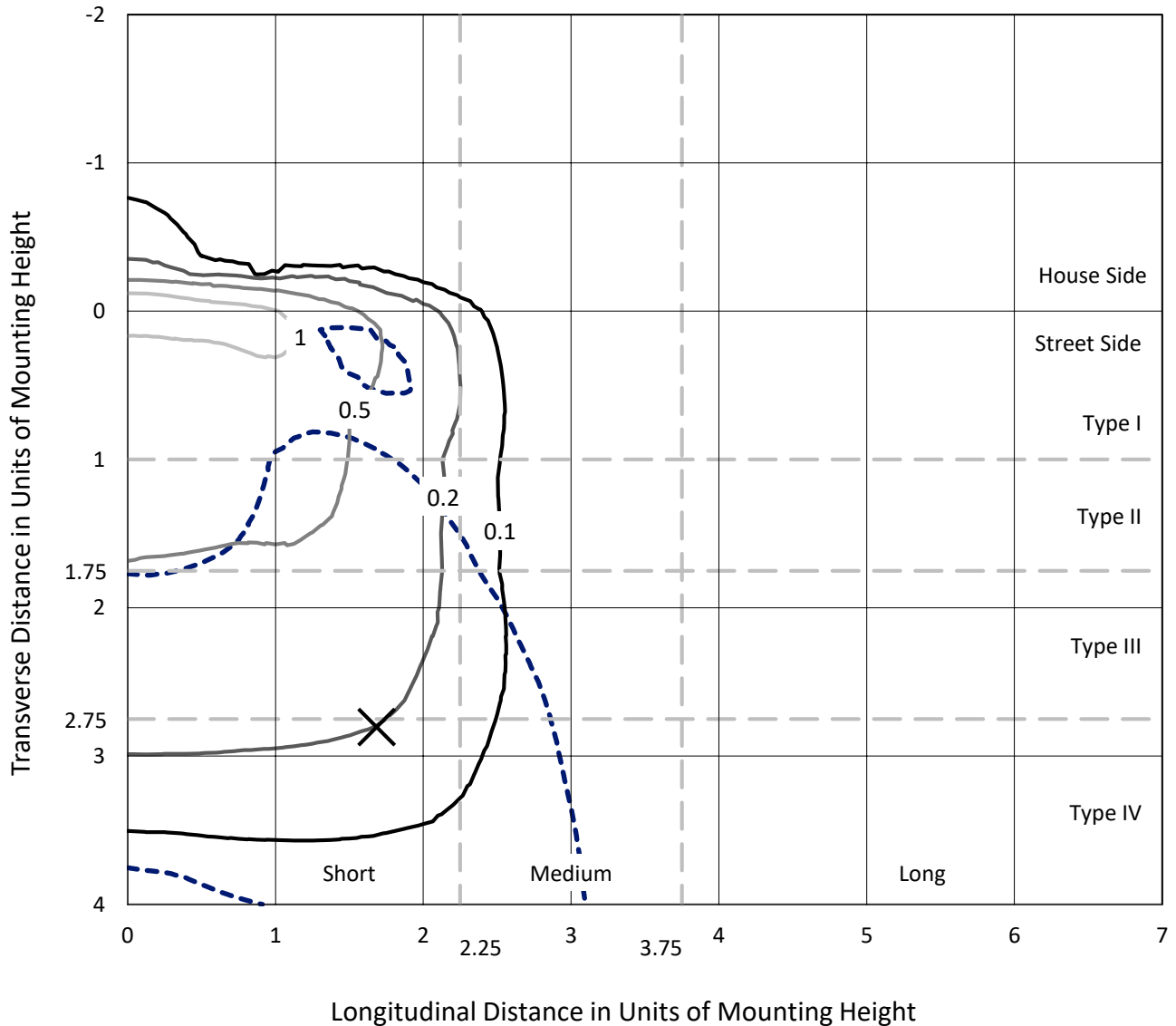
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

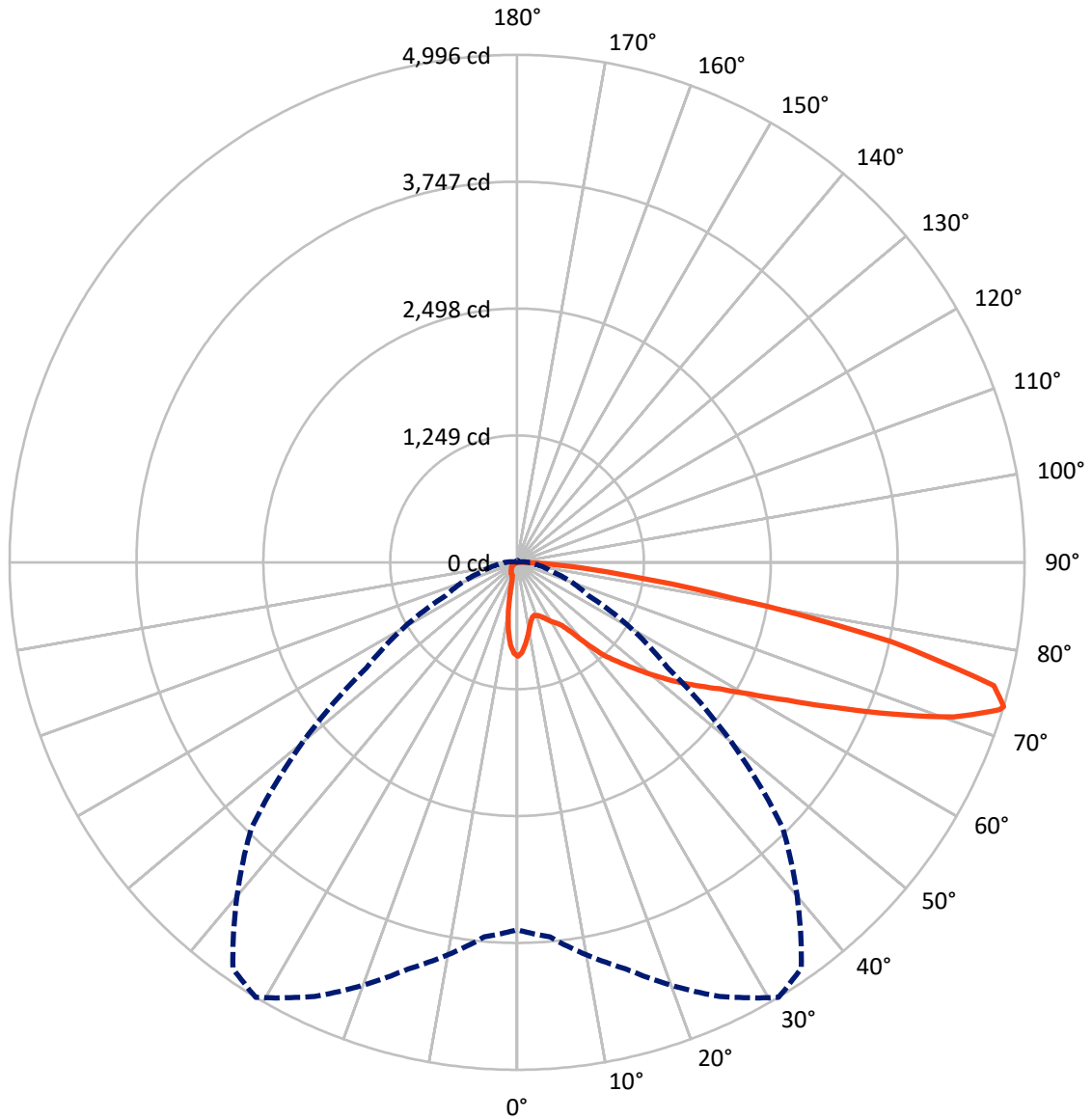
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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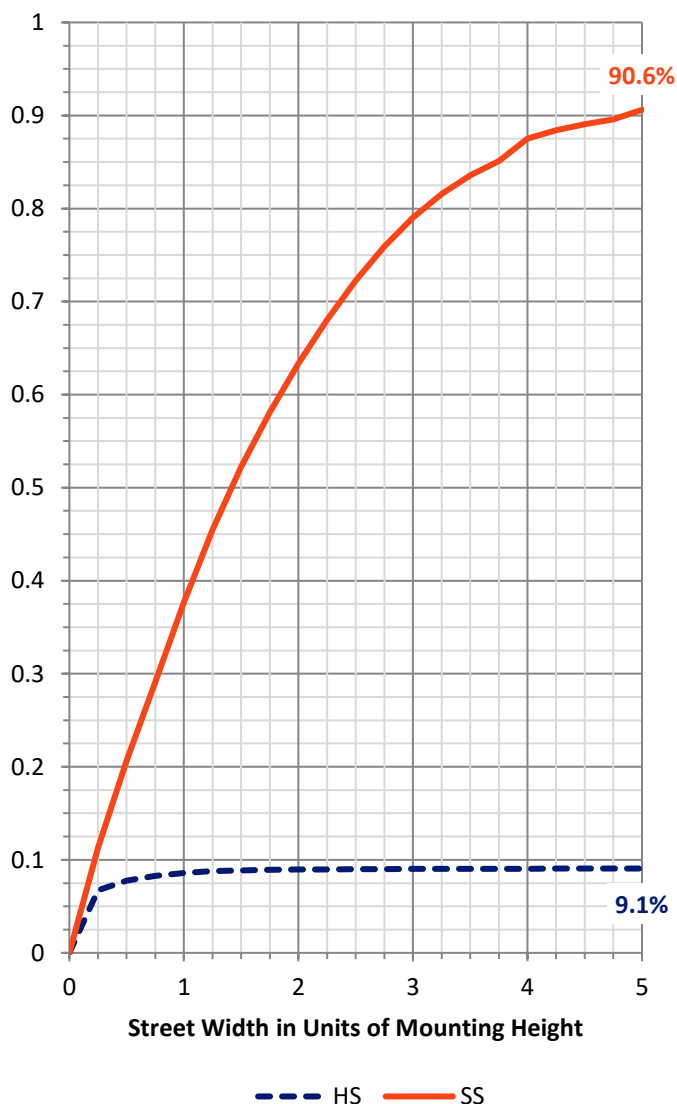
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	489.9	0.0	489.9
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4884.2	0.0	4884.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	5374.1	0.0	5374.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.4
10°-20°	166.5	3.1
20°-30°	249.4	4.6
30°-40°	396.8	7.4
40°-50°	708.6	13.2
50°-60°	1099.5	20.5
60°-70°	1461.7	27.2
70°-80°	1099.5	20.5
80°-90°	115.5	2.1
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°	5374.1	100.0
0°-180°	5374.1	100.0

Coefficient of Utilization



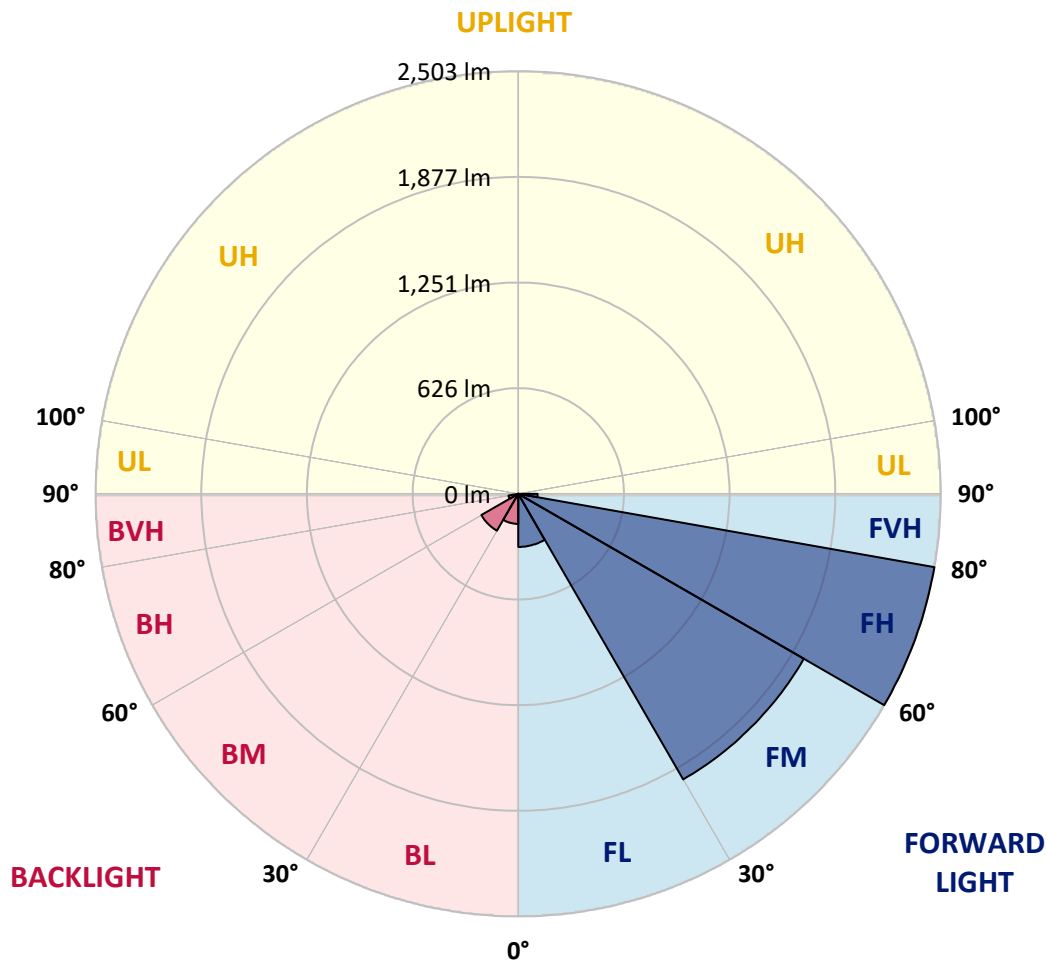
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.4	5.9			
FM (30°-60°)	1952.8	36.3			
FH (60°-80°)	2502.5	46.6			G2/5000
FVH (80°-90°)	114.6	2.1			G2/225
BL (0°-30°)	178.1	3.3	B1/500		
BM (30°-60°)	252.1	4.7	B1/1000		
BH (60°-80°)	58.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7
2.5°	876.2	879.9	883.9	884.7	891.2	891.5	901.0	908.1	915.2	922.0	924.4
5°	786.3	792.4	799.5	806.5	820.5	826.0	849.1	872.9	895.4	917.0	927.5
7.5°	690.3	697.2	707.1	724.7	740.3	751.0	787.6	829.7	871.7	911.5	934.3
10°	602.7	609.0	619.6	638.2	662.1	676.9	726.0	784.5	846.2	906.5	944.6
12.5°	547.0	550.5	556.2	576.2	597.8	614.4	672.2	744.5	825.3	906.2	961.2
15°	536.8	537.8	533.0	542.0	558.8	574.9	633.5	712.2	809.1	910.4	982.8
17.5°	553.1	552.5	536.8	535.6	549.1	562.3	614.5	689.8	797.9	920.2	1010.6
20°	577.7	575.9	548.6	543.6	557.8	570.1	613.2	681.3	793.7	936.5	1044.5
22.5°	610.6	607.5	564.6	559.4	574.6	587.5	629.5	689.5	797.3	958.3	1083.9
25°	651.4	646.7	592.2	586.4	602.0	614.8	658.8	712.9	808.4	984.8	1134.0
27.5°	697.4	690.6	636.4	621.4	639.0	652.5	697.6	748.7	825.7	1013.0	1195.3
30°	740.8	731.8	682.9	658.2	679.8	694.7	739.7	791.3	853.6	1056.4	1279.1
32.5°	784.5	774.5	724.5	695.0	714.5	730.8	783.2	849.9	905.9	1122.6	1390.6
35°	884.9	874.4	813.1	764.4	764.2	773.4	843.9	930.2	975.1	1214.9	1523.6
37.5°	1054.0	1048.0	989.6	897.3	872.6	862.3	926.7	1025.9	1074.5	1342.0	1673.8
40°	1239.1	1233.9	1168.4	1084.8	1047.2	1021.9	1045.6	1159.2	1214.9	1497.1	1827.1
42.5°	1448.2	1423.2	1306.5	1281.4	1247.8	1228.6	1207.3	1323.5	1387.4	1666.0	1979.2
45°	1638.0	1596.0	1444.6	1406.6	1399.0	1403.7	1415.6	1544.5	1581.6	1866.6	2130.6
47.5°	1751.1	1718.1	1601.8	1565.5	1563.4	1594.7	1684.1	1794.1	1774.8	2041.5	2263.9
50°	1858.7	1828.7	1732.2	1741.2	1750.9	1793.5	1988.9	2050.7	1951.3	2200.0	2386.3
52.5°	1945.7	1900.0	1849.5	1899.7	1947.6	2016.2	2303.4	2281.1	2076.4	2326.3	2490.9
55°	1996.0	1975.3	1999.7	2050.1	2140.1	2251.6	2600.3	2472.8	2168.0	2441.5	2560.6
57.5°	2180.1	2139.3	2187.9	2231.6	2348.9	2504.8	2854.6	2615.6	2233.9	2512.8	2576.7
60°	2402.8	2370.0	2398.6	2471.2	2629.5	2812.8	3092.4	2732.0	2268.4	2558.5	2535.1
62.5°	2757.3	2713.9	2696.0	2777.3	2987.2	3187.3	3272.7	2812.8	2260.8	2538.3	2392.6
65°	3232.3	3187.3	3107.4	3181.0	3447.8	3589.1	3474.5	2829.9	2208.2	2374.4	2032.3
67.5°	3718.7	3686.1	3617.8	3741.9	3982.7	4028.3	3687.7	2788.3	2038.9	1925.2	1435.9
70°	4040.1	4026.1	4070.6	4345.1	4560.0	4546.9	3883.3	2565.1	1589.1	1183.9	710.3
72.5°	3808.4	3875.2	4203.4	4701.2	4963.7	4856.3	3782.9	1969.7	908.4	455.4	205.4
73°	3616.5	3701.9	4143.7	4714.7	4995.5	4878.0	3698.5	1807.9	774.2	359.5	155.7
75°	2515.9	2620.8	3430.5	4390.9	4846.7	4647.6	3082.9	1106.6	358.7	159.4	62.9
77.5°	1221.5	1299.1	1889.0	3172.6	3769.2	3631.2	1919.2	412.3	162.0	99.7	29.0
80°	456.0	507.0	819.9	1614.7	2178.2	2235.3	844.2	155.9	107.8	80.2	14.7
82.5°	119.4	133.0	302.4	720.0	1116.4	1168.4	266.1	78.6	78.9	66.0	8.9
85°	38.1	43.7	94.4	323.2	526.0	461.8	69.4	38.1	57.3	49.2	5.0
87.5°	4.8	6.1	30.0	76.0	116.0	64.5	10.8	11.3	24.5	27.4	2.9
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°	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7	924.7
2.5°	926.7	925.4	925.7	918.9	914.4	905.5	896.2	892.0	887.6	885.7	887.6
5°	931.5	929.1	922.2	901.2	878.8	849.9	822.8	802.3	776.5	769.5	776.8
7.5°	938.8	934.1	914.1	871.3	821.5	766.3	704.2	659.0	621.9	598.1	606.7
10°	949.6	940.7	900.4	827.6	738.7	640.9	552.8	484.1	435.5	415.5	414.7
12.5°	967.8	950.9	883.6	770.8	637.5	507.0	391.5	317.2	277.7	252.2	251.7
15°	987.7	963.0	862.3	702.7	519.6	363.2	252.2	195.6	170.1	162.0	161.0
17.5°	1012.2	976.9	834.7	618.8	396.3	240.6	164.6	148.3	147.3	146.4	146.4
20°	1043.0	993.5	799.2	522.8	281.1	160.7	139.9	140.9	141.5	140.4	140.7
22.5°	1078.7	1010.4	756.9	419.8	190.1	134.4	133.9	135.2	135.7	135.2	135.4
25°	1120.3	1029.8	705.3	311.6	137.3	127.5	128.8	130.7	132.0	132.0	132.0
27.5°	1171.8	1053.5	643.2	217.5	118.6	120.4	124.1	127.5	129.4	130.0	130.0
30°	1238.9	1082.9	568.8	149.1	107.8	110.9	117.8	124.4	127.8	128.4	128.6
32.5°	1323.5	1116.1	482.5	110.2	98.7	101.0	108.3	119.4	125.9	127.1	127.1
35°	1420.6	1154.5	389.8	95.9	92.0	92.9	98.7	111.2	122.8	125.7	125.9
37.5°	1526.8	1192.4	296.4	89.7	86.5	86.5	90.7	101.5	115.1	124.1	125.2
40°	1626.0	1215.2	207.7	84.7	81.5	81.5	85.2	93.1	106.0	119.4	122.3
42.5°	1717.5	1223.1	144.7	79.9	76.8	77.6	80.8	87.0	96.8	110.2	112.8
45°	1811.7	1221.8	105.5	74.4	72.1	74.4	76.8	81.5	88.6	96.2	96.8
47.5°	1882.7	1210.7	83.7	69.1	67.6	70.7	72.8	76.0	79.9	79.5	79.5
50°	1949.2	1183.9	67.4	62.0	63.2	66.8	67.8	68.9	69.1	64.2	63.6
52.5°	1999.7	1142.1	53.9	54.4	58.7	62.3	61.3	59.7	57.1	51.0	49.9
55°	2016.5	1061.6	42.4	45.0	52.1	56.8	52.8	49.5	44.4	39.4	38.4
57.5°	1986.0	957.7	34.5	34.9	43.9	47.9	43.4	39.4	33.9	29.7	29.0
60°	1921.3	842.3	28.4	26.3	33.9	37.4	34.5	30.5	25.5	22.4	22.1
62.5°	1792.9	719.2	23.4	20.5	25.8	28.7	26.8	23.9	19.7	17.6	17.3
65°	1523.2	575.4	18.9	16.6	20.0	22.4	20.8	18.6	15.6	14.0	13.7
67.5°	1063.2	388.9	15.6	13.7	15.7	17.6	16.3	15.3	12.4	12.1	12.4
70°	512.8	187.5	12.9	11.1	12.4	13.7	13.1	12.4	11.8	13.7	15.7
72.5°	147.0	62.9	10.2	9.2	10.0	10.8	11.3	11.1	12.9	16.6	19.2
73°	113.1	50.8	9.7	8.7	9.5	10.5	11.1	10.8	13.1	16.9	19.2
75°	48.3	24.5	7.4	7.1	7.9	9.2	9.7	9.7	13.1	17.0	18.4
77.5°	21.8	13.1	4.8	5.5	6.8	7.4	8.2	8.2	10.5	13.1	13.1
80°	12.4	7.1	3.7	4.2	5.0	5.0	5.0	4.5	4.8	5.2	5.8
82.5°	7.9	4.8	2.9	3.4	3.2	2.6	2.1	2.1	1.9	2.1	2.6
85°	4.5	2.6	2.6	2.1	1.3	1.0	1.3	1.0	0.3	0.0	0.3
87.5°	2.6	1.6	0.7	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)