

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: P382720

Luminaire Tested: **GLEON-SA1A-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS 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: 3688.9 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

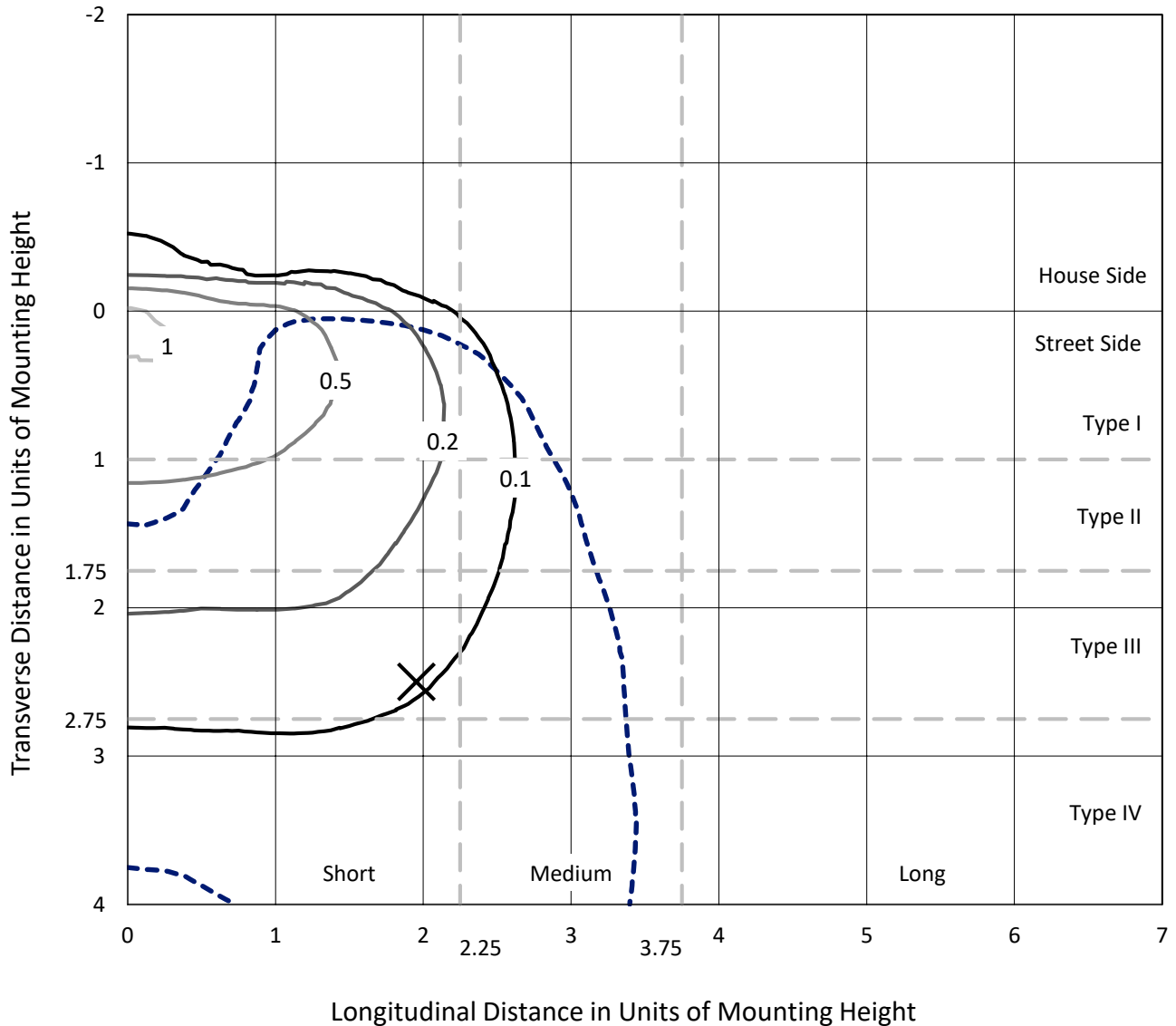
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382720
 CATALOG NUMBER: GLEON-SA1A-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

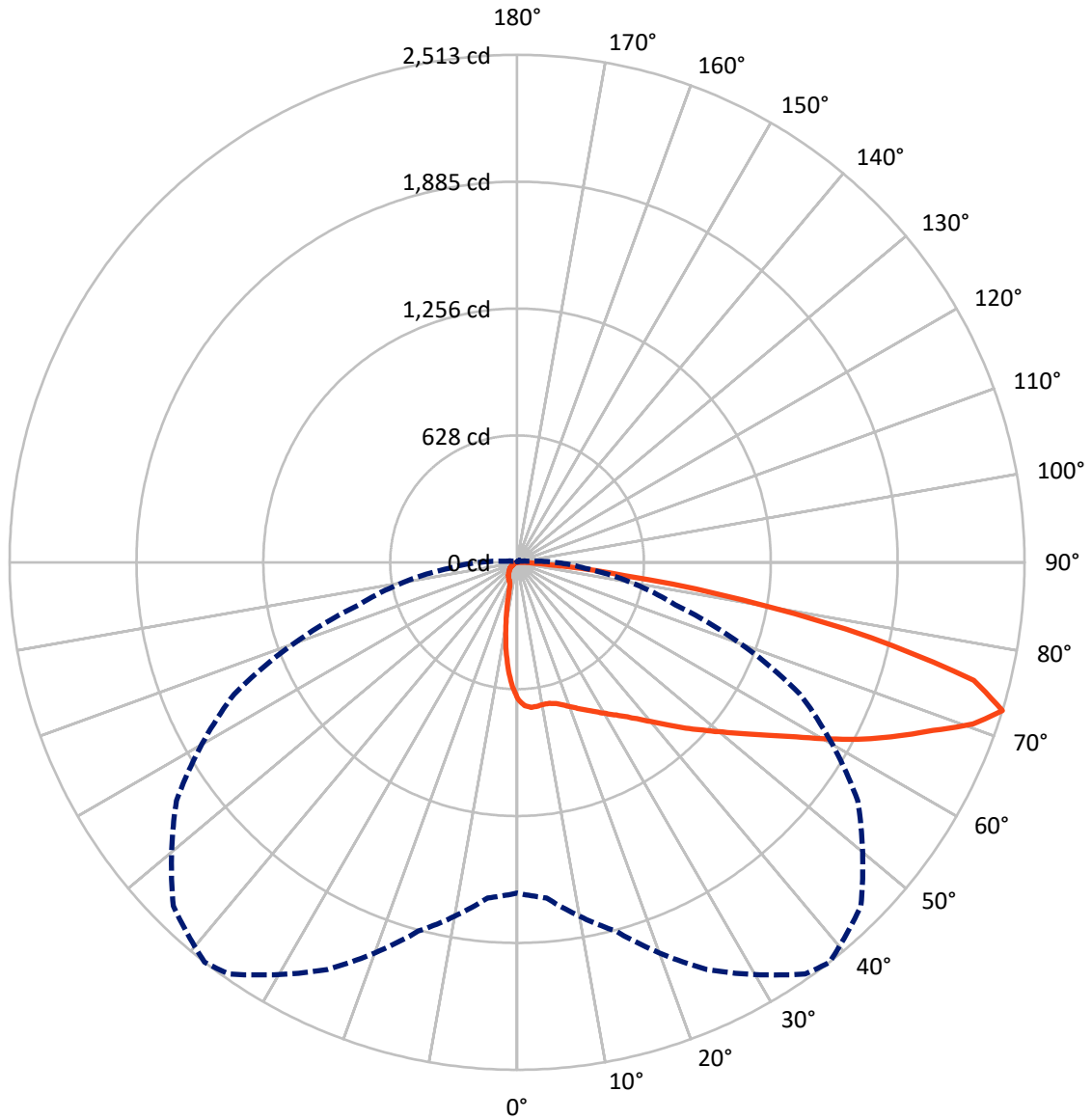
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P382720
CATALOG NUMBER: GLEON-SA1A-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P382720
 CATALOG NUMBER: GLEON-SA1A-735-U-SL4-HSS

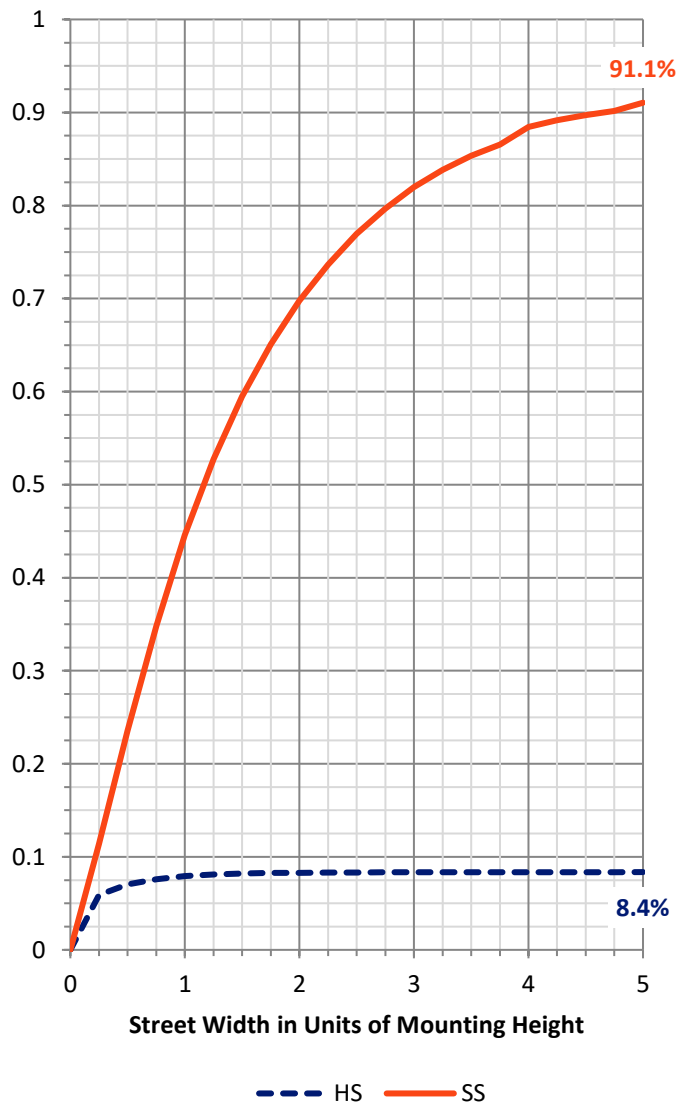
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	310.4	0.0	310.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3378.5	0.0	3378.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	3688.9	0.0	3688.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.6
10°-20°	141.4	3.8
20°-30°	224.8	6.1
30°-40°	338.0	9.2
40°-50°	515.7	14.0
50°-60°	728.8	19.8
60°-70°	914.2	24.8
70°-80°	683.5	18.5
80°-90°	84.8	2.3
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°	3688.9	100.0
0°-180°	3688.9	100.0

Coefficient of Utilization



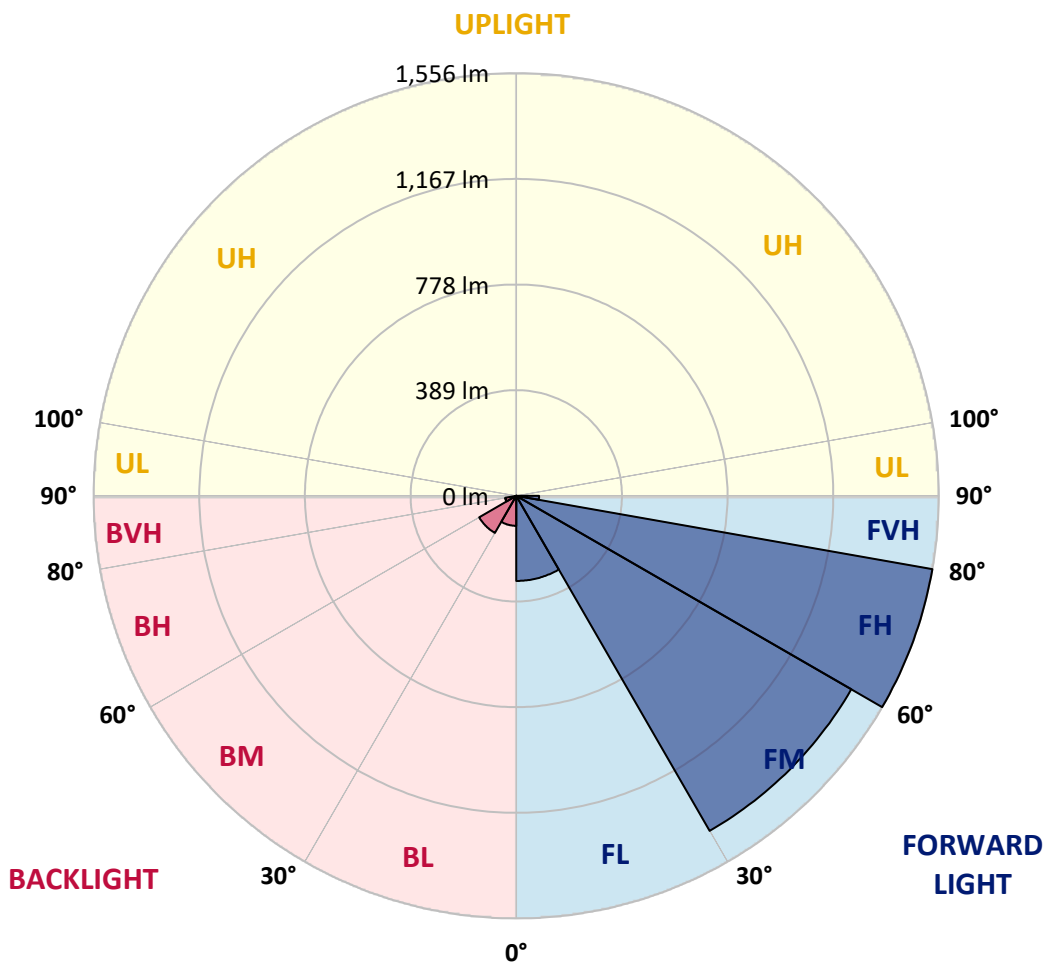
REPORT NUMBER: P382720
 CATALOG NUMBER: GLEON-SA1A-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	313.5	8.5			
FM (30°-60°)	1424.8	38.6			
FH (60°-80°)	1556.2	42.2			G1/1800
FVH (80°-90°)	84.0	2.3			G1/100
BL (0°-30°)	110.5	3.0	B1/500		
BM (30°-60°)	157.6	4.3	B0/220		
BH (60°-80°)	41.5	1.1	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P382720

CATALOG NUMBER: GLEON-SA1A-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4
2.5°	720.1	720.2	718.5	715.8	712.3	710.4	707.3	702.5	697.3	687.9	677.8
5°	734.8	734.8	732.6	728.9	723.3	721.6	715.8	708.0	697.3	682.1	665.0
7.5°	733.2	733.5	730.6	726.8	721.1	719.6	712.5	703.8	690.5	672.1	650.3
10°	725.3	726.0	723.7	721.9	716.6	715.0	708.4	699.7	686.4	666.7	641.7
12.5°	717.1	717.9	718.7	720.4	717.1	716.5	711.3	704.0	691.2	670.9	642.7
15°	711.9	713.5	719.0	725.6	726.3	725.7	722.3	715.4	702.6	681.4	649.3
17.5°	711.9	714.4	725.9	738.4	742.9	743.4	740.4	730.8	715.4	692.8	655.4
20°	717.9	721.3	739.2	757.0	764.3	764.3	758.7	745.1	727.3	703.0	659.5
22.5°	733.2	737.7	760.2	780.7	788.6	786.9	779.1	759.6	739.6	714.7	664.8
25°	763.4	766.8	790.2	810.9	815.7	811.8	802.2	777.0	755.1	730.4	674.3
27.5°	802.3	802.8	827.0	844.4	841.6	839.0	826.8	799.0	777.7	753.0	690.6
30°	845.1	845.1	866.3	879.7	870.8	868.7	856.6	825.4	806.4	783.6	713.9
32.5°	886.5	888.2	905.6	914.0	904.1	901.9	890.1	859.0	844.7	830.4	750.3
35°	926.4	927.8	944.2	948.8	939.3	939.9	931.5	905.1	899.8	897.9	805.0
37.5°	965.2	965.5	982.2	985.1	980.4	985.6	986.3	963.0	973.0	987.8	882.0
40°	1000.6	1000.9	1017.4	1024.9	1033.1	1039.8	1045.8	1033.4	1066.2	1100.7	973.7
42.5°	1028.9	1032.2	1053.1	1067.4	1088.8	1101.6	1118.0	1117.3	1177.4	1229.2	1084.7
45°	1053.9	1059.4	1088.7	1113.7	1150.4	1171.0	1196.4	1216.3	1302.4	1372.1	1196.9
47.5°	1086.8	1092.1	1125.4	1166.3	1215.4	1242.3	1284.4	1327.5	1439.8	1512.5	1306.7
50°	1133.2	1130.9	1163.9	1222.6	1285.5	1320.9	1380.9	1445.5	1576.2	1634.7	1371.1
52.5°	1182.7	1181.8	1206.2	1283.7	1368.3	1409.6	1489.0	1567.4	1706.5	1718.9	1400.8
55°	1244.0	1237.4	1258.0	1353.4	1466.4	1510.9	1604.3	1688.2	1810.4	1766.4	1415.6
57.5°	1308.2	1297.4	1316.9	1431.0	1577.2	1629.7	1732.1	1805.8	1879.5	1798.9	1415.5
60°	1374.5	1361.6	1384.9	1528.2	1714.8	1775.6	1870.6	1885.4	1944.0	1815.3	1405.1
62.5°	1430.0	1422.4	1456.9	1632.1	1868.5	1928.2	1975.3	1957.6	1998.4	1828.0	1380.6
65°	1488.7	1489.2	1545.1	1753.3	2031.8	2072.0	2076.0	2051.4	2043.9	1825.4	1298.2
67.5°	1568.1	1575.3	1668.7	1917.8	2190.6	2221.7	2221.5	2153.0	2077.2	1721.9	1115.4
70°	1652.0	1669.3	1811.2	2106.0	2364.1	2395.7	2379.4	2217.6	1955.8	1392.3	789.5
72.5°	1637.8	1667.9	1890.4	2224.8	2488.6	2512.7	2407.1	2058.7	1545.8	809.2	336.1
75°	1263.6	1298.4	1733.3	2107.2	2357.9	2336.3	2068.2	1602.1	844.7	225.8	75.6
77.5°	667.5	686.1	1145.1	1605.2	1838.6	1793.4	1456.9	888.7	257.6	55.9	34.0
80°	349.6	353.9	498.9	910.8	1134.8	1135.1	863.5	390.3	106.2	28.7	22.8
82.5°	187.2	190.9	263.6	420.9	594.6	539.0	330.6	214.8	61.8	16.2	21.9
85°	45.1	45.8	149.5	192.3	233.8	167.0	98.2	180.3	16.7	9.5	17.8
87.5°	17.3	17.6	55.4	83.2	59.6	38.6	45.9	67.3	2.1	3.6	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382720

CATALOG NUMBER: GLEON-SA1A-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4	678.4
2.5°	671.6	667.6	657.9	645.5	634.4	626.5	614.5	606.7	601.5	601.3	599.4
5°	654.6	646.5	625.3	600.3	577.5	556.9	532.7	513.6	499.3	497.0	492.0
7.5°	636.4	623.1	590.6	551.4	513.1	474.2	429.0	400.9	376.9	365.4	364.1
10°	625.3	606.5	560.4	503.7	443.7	380.4	321.3	280.4	250.8	242.4	236.1
12.5°	622.9	598.2	537.1	459.0	373.2	289.5	224.1	180.6	157.1	149.5	147.6
15°	625.3	594.4	517.5	414.7	301.8	205.4	150.4	125.2	116.3	114.1	114.0
17.5°	626.6	589.9	495.3	365.5	232.6	146.8	115.2	107.9	106.5	106.3	106.7
20°	626.5	582.8	468.8	310.7	173.0	115.3	104.1	102.7	102.4	102.5	102.4
22.5°	625.3	574.5	439.7	254.1	130.7	103.1	99.4	98.5	98.4	98.4	98.4
25°	627.4	568.0	407.6	200.1	107.7	97.4	95.1	94.4	94.2	94.2	93.9
27.5°	634.6	564.2	372.6	154.0	97.3	92.4	90.5	90.4	89.9	89.8	90.1
30°	646.2	564.2	334.1	119.8	91.0	87.2	85.8	85.5	85.3	85.1	85.3
32.5°	666.7	568.5	292.1	99.6	85.1	81.3	80.4	80.9	80.4	80.4	80.4
35°	703.8	581.4	248.2	86.8	78.7	75.6	74.8	75.4	75.1	75.1	74.9
37.5°	757.9	605.3	203.9	79.2	73.2	70.1	68.7	69.7	69.4	69.4	69.2
40°	823.8	640.1	161.8	73.4	67.9	64.5	63.4	63.9	63.2	63.2	63.4
42.5°	905.1	684.2	125.0	67.7	62.5	59.2	58.7	58.2	56.8	56.1	56.3
45°	995.5	730.1	97.4	62.2	57.5	54.9	53.9	52.7	50.4	48.9	49.0
47.5°	1076.2	765.5	79.2	56.8	52.8	50.9	49.5	47.2	43.8	42.0	42.1
50°	1118.7	770.9	67.4	51.5	48.5	46.6	44.6	41.1	37.1	35.1	34.9
52.5°	1129.6	745.8	58.7	46.6	44.2	42.0	39.4	34.7	30.2	28.0	27.8
55°	1133.5	707.5	50.9	42.0	39.7	37.1	33.7	28.3	24.2	22.1	21.9
57.5°	1120.4	650.3	44.7	37.8	35.1	31.9	27.8	22.6	18.7	17.0	17.0
60°	1091.1	573.0	40.0	33.4	30.4	26.6	22.4	17.6	14.0	12.6	12.6
62.5°	1032.7	472.8	35.6	28.8	25.9	22.1	18.1	13.3	9.8	9.0	9.2
65°	922.6	358.6	31.1	24.7	22.1	18.3	14.1	9.5	6.6	6.6	6.9
67.5°	752.4	249.1	26.5	21.0	19.0	14.9	10.7	6.6	4.6	5.2	5.8
70°	498.1	139.7	22.6	17.3	16.2	11.8	8.0	4.5	3.6	4.9	6.0
72.5°	188.0	54.4	19.0	14.0	14.1	9.0	5.7	3.4	3.4	5.4	7.1
75°	52.4	26.6	13.6	10.2	11.0	6.6	4.1	2.9	3.3	6.1	8.3
77.5°	30.8	19.7	8.8	6.0	7.5	4.6	2.8	2.3	2.8	5.2	8.0
80°	24.8	10.4	5.2	3.1	4.1	2.6	1.9	1.4	0.7	2.0	4.1
82.5°	24.8	6.2	2.4	2.1	2.1	1.4	0.9	0.7	0.2	0.0	1.1
85°	16.7	2.6	1.5	1.4	1.1	0.5	0.3	0.2	0.0	0.0	0.0
87.5°	2.8	1.1	0.7	0.3	0.2	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)