

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: P193779

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3904 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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

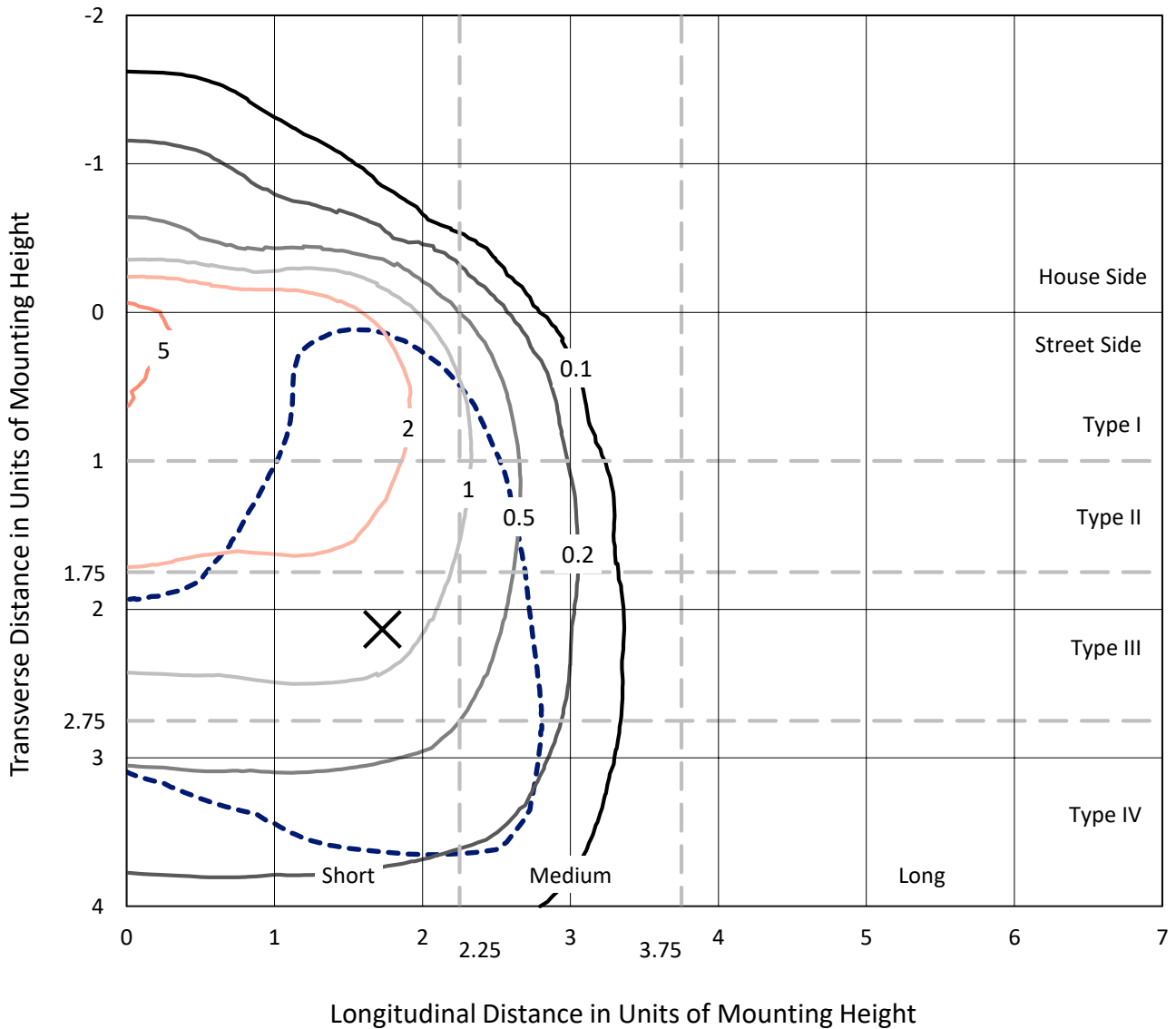


REPORT NUMBER: P193779

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800

Iso-Footcandle Lines of Horizontal Illumination

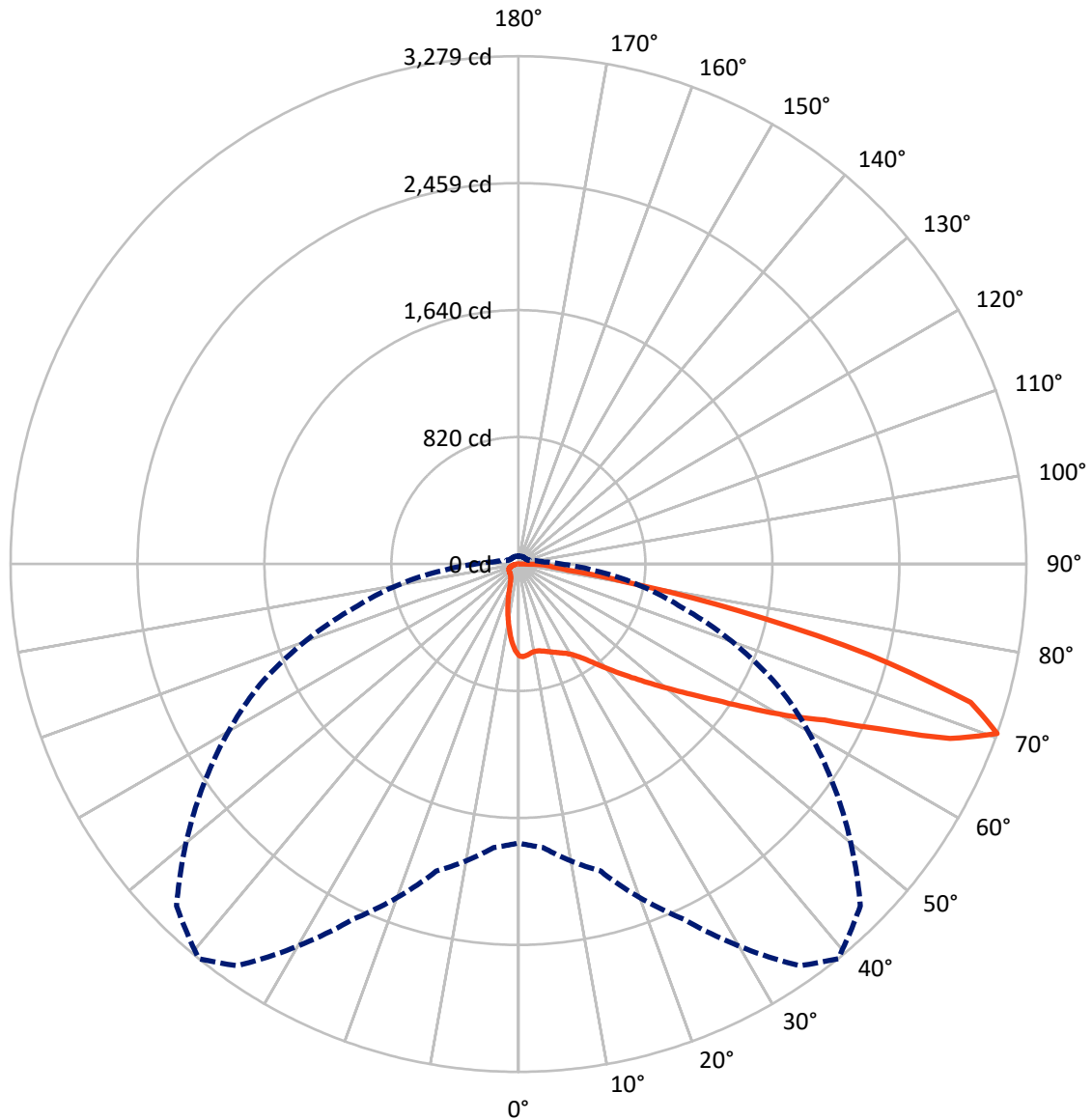
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193779
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P193779

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800

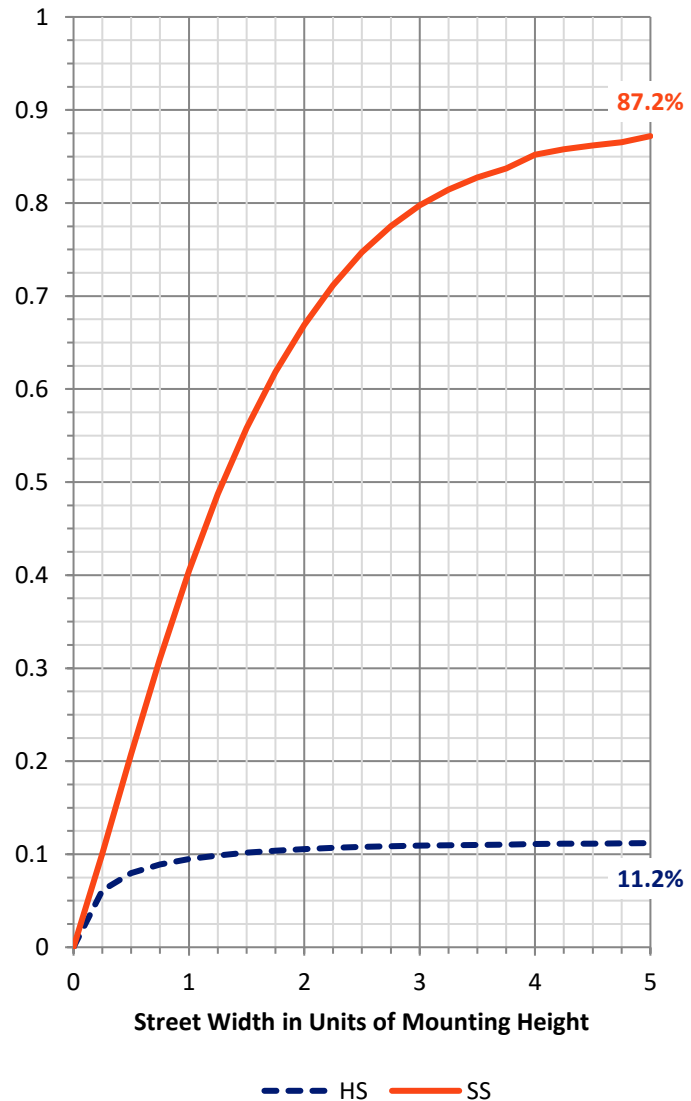
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	444.0	0.0	444.0
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	3460.0	0.0	3460.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	3904.0	0.0	3904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.3
10°-20°	127.1	3.3
20°-30°	198.0	5.1
30°-40°	308.4	7.9
40°-50°	517.7	13.3
50°-60°	822.5	21.1
60°-70°	1097.1	28.1
70°-80°	662.5	17.0
80°-90°	119.9	3.1
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°	3904.0	100.0
0°-180°	3904.0	100.0



REPORT NUMBER: P193779

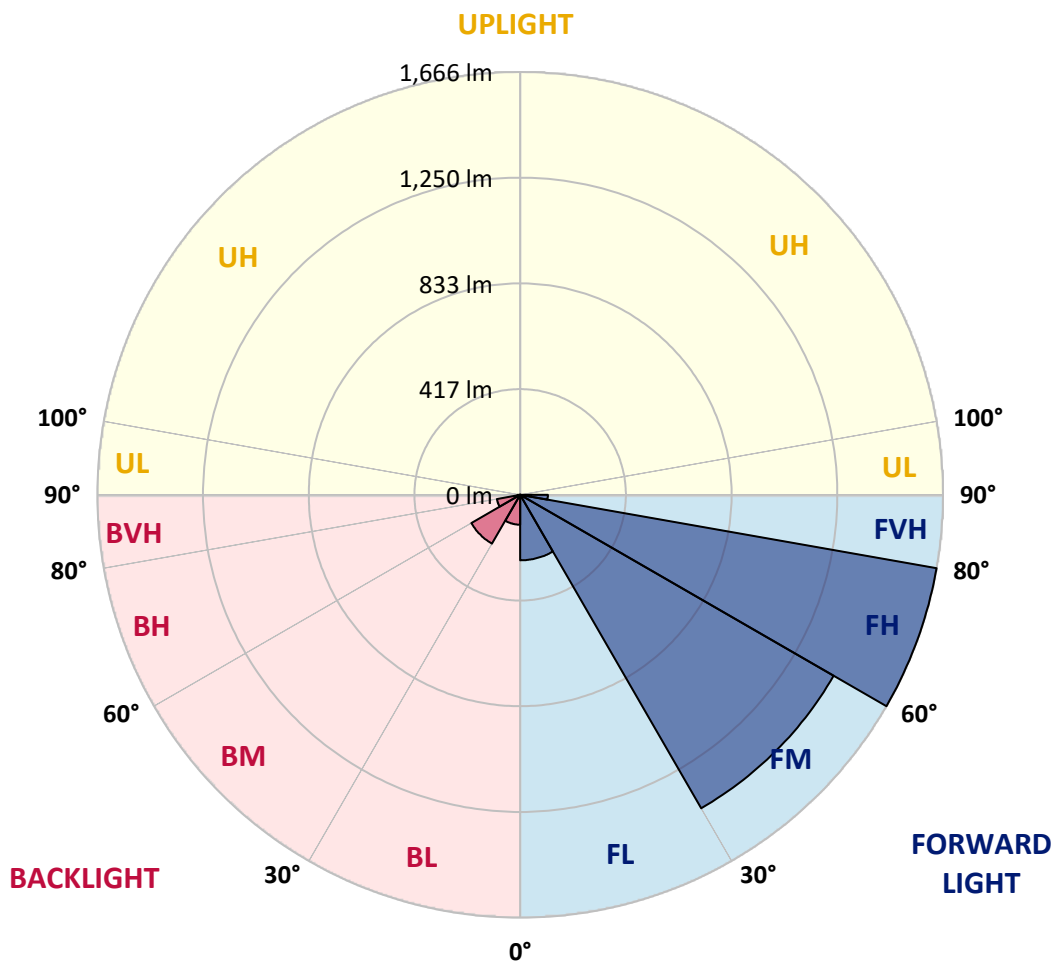
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	258.2	6.6			
FM	(30°-60°)	1426.4	36.5			
FH	(60°-80°)	1666.3	42.7			G1/1800
FVH	(80°-90°)	109.1	2.8			G2/225
BL	(0°-30°)	117.8	3.0	B1/500		
BM	(30°-60°)	222.2	5.7	B1/1000		
BH	(60°-80°)	93.2	2.4	B0/110		G0/110
BVH	(80°-90°)	10.8	0.3			G1/100
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





REPORT NUMBER: P193779

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7
2.5°	604.2	604.0	602.4	601.2	600.2	599.8	600.6	597.6	595.1	591.9	588.5
5°	599.6	599.4	596.9	594.5	592.1	591.3	591.1	585.7	582.6	577.8	571.4
7.5°	594.7	593.7	590.3	586.3	582.2	580.2	578.2	571.3	567.7	562.9	555.6
10°	589.5	588.3	585.1	581.2	577.2	574.2	570.9	564.1	560.3	556.8	548.2
12.5°	584.2	583.2	582.4	580.6	577.8	575.2	572.6	566.9	562.9	558.7	548.8
15°	583.4	583.0	584.7	585.9	584.4	582.8	580.0	575.0	570.9	566.7	553.8
17.5°	589.7	589.5	594.1	597.3	596.5	593.7	589.9	584.4	581.0	577.4	561.3
20°	603.6	604.6	610.2	614.3	610.4	606.4	600.2	592.5	590.7	589.1	569.1
22.5°	629.8	630.8	634.8	636.4	626.0	620.3	611.7	601.8	600.6	601.8	578.4
25°	670.7	669.7	669.1	663.2	644.3	635.4	624.4	614.1	614.7	620.1	591.5
27.5°	724.9	719.5	711.2	693.3	663.3	653.4	640.1	630.6	634.4	644.7	611.1
30°	781.1	775.1	755.8	726.7	688.4	677.4	662.6	651.8	661.8	678.0	637.3
32.5°	833.1	832.3	804.1	766.6	722.9	713.4	698.5	686.4	702.5	727.3	676.6
35°	889.8	891.6	857.9	812.8	769.5	759.6	748.9	739.8	761.2	795.3	733.6
37.5°	950.6	954.1	914.2	863.4	822.7	818.6	812.2	808.2	841.4	888.6	813.2
40°	1031.7	1028.2	972.8	920.6	888.0	887.8	885.9	890.6	945.8	1010.5	915.4
42.5°	1118.7	1108.2	1034.9	981.9	959.7	966.4	970.4	989.9	1071.4	1158.6	1040.1
45°	1212.4	1188.7	1099.4	1046.8	1039.3	1053.6	1067.1	1109.4	1219.3	1327.1	1176.6
47.5°	1287.2	1264.4	1166.1	1114.9	1131.4	1153.0	1179.0	1245.9	1384.9	1501.2	1311.4
50°	1346.2	1331.3	1233.4	1194.3	1232.8	1266.2	1308.6	1400.5	1557.1	1670.7	1436.3
52.5°	1403.3	1392.2	1301.3	1275.7	1351.9	1398.0	1455.7	1566.5	1733.8	1837.4	1541.3
55°	1454.9	1447.0	1374.3	1377.1	1492.0	1552.0	1624.6	1755.4	1926.3	1986.1	1630.2
57.5°	1513.1	1503.0	1457.7	1504.3	1672.1	1749.9	1844.4	1967.8	2107.0	2118.3	1697.9
60°	1571.6	1562.9	1550.2	1651.2	1900.7	1982.5	2072.0	2173.7	2290.2	2220.9	1693.9
62.5°	1622.4	1623.4	1645.9	1805.5	2124.6	2219.3	2328.5	2428.9	2455.9	2238.8	1568.7
65°	1708.6	1724.3	1791.2	2023.8	2439.8	2566.5	2700.4	2684.4	2501.8	2071.8	1300.1
67.5°	1811.0	1838.6	1974.2	2314.8	2838.2	3006.3	3058.1	2742.1	2318.2	1684.2	926.7
70°	1800.7	1838.6	2053.2	2531.7	3166.5	3279.2	3122.0	2481.7	1840.8	1100.2	492.3
72.5°	1599.0	1653.2	1892.2	2432.3	3063.1	3053.2	2710.4	1850.1	1093.7	441.8	192.3
75°	1218.7	1273.5	1479.1	1921.6	2421.0	2337.6	1923.2	1022.0	415.0	175.5	121.3
77.5°	701.1	743.5	902.3	1178.4	1535.9	1450.4	1070.5	454.5	202.1	122.3	94.7
80°	391.4	415.0	511.5	597.8	752.7	689.9	479.0	282.4	150.9	88.7	73.0
82.5°	309.4	330.5	413.7	377.1	343.8	317.2	275.1	251.5	120.5	56.0	43.7
85°	270.3	290.4	350.1	296.9	234.8	215.4	223.5	247.5	93.7	33.7	37.3
87.5°	250.5	277.3	312.0	228.9	182.8	162.0	206.2	271.3	30.2	21.0	15.1
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: P193779

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7	592.7
2.5°	585.5	582.4	577.2	572.6	565.5	561.7	557.6	554.6	552.2	550.2	553.4
5°	567.5	561.5	550.6	538.9	525.0	514.1	505.0	496.4	490.5	486.5	489.3
7.5°	550.4	540.7	523.6	502.4	478.6	458.3	441.6	426.9	416.8	410.3	412.9
10°	540.7	528.6	502.2	468.8	433.7	402.1	375.9	353.3	337.6	328.7	330.1
12.5°	538.3	522.6	486.1	440.2	392.2	348.3	311.4	280.1	258.0	246.5	246.9
15°	540.1	520.0	471.0	412.9	352.1	296.7	250.7	212.6	187.0	173.9	173.7
17.5°	543.1	518.1	455.1	383.3	311.4	247.1	195.7	158.4	135.8	125.2	124.5
20°	546.2	514.9	437.3	351.3	269.2	201.1	153.2	124.1	109.8	104.0	103.6
22.5°	550.8	512.1	418.8	317.6	227.7	163.8	126.0	106.4	98.8	95.9	95.5
25°	558.2	510.7	399.2	282.4	190.4	137.0	109.8	97.7	93.3	91.3	91.1
27.5°	570.5	512.7	380.7	248.3	160.0	118.9	100.6	93.3	90.1	88.3	88.1
30°	586.3	518.8	361.2	216.0	136.4	106.6	95.1	90.3	87.7	85.9	85.9
32.5°	612.7	529.2	340.8	188.0	119.5	98.1	90.9	87.7	85.5	84.2	84.0
35°	651.6	548.6	321.8	164.7	107.4	91.9	87.3	85.0	83.4	82.6	82.6
37.5°	708.2	579.4	304.9	148.1	100.0	87.7	84.0	82.2	81.2	81.2	81.2
40°	784.2	621.9	291.2	137.0	95.9	84.8	81.4	80.0	79.4	79.6	79.6
42.5°	878.1	677.0	282.1	129.2	93.9	83.0	79.6	78.4	77.8	77.6	77.8
45°	985.1	739.8	281.1	123.5	91.9	81.8	78.4	77.2	76.0	75.2	75.2
47.5°	1089.1	803.5	289.2	121.5	89.7	80.4	77.4	76.2	74.4	72.6	72.6
50°	1181.0	857.7	300.1	122.3	88.9	78.4	75.8	75.2	72.4	70.5	70.3
52.5°	1254.1	899.4	309.0	124.7	89.7	77.0	73.8	74.0	71.1	68.9	68.7
55°	1312.6	926.7	306.7	127.0	91.5	76.2	72.1	72.4	70.1	67.9	67.9
57.5°	1338.2	916.6	280.3	125.0	92.9	76.4	70.7	72.2	70.3	68.3	68.3
60°	1283.2	826.7	230.8	116.3	91.1	75.8	70.1	73.0	72.8	70.9	70.7
62.5°	1116.9	665.7	179.0	103.4	85.0	72.8	68.5	72.8	75.0	74.4	74.2
65°	860.8	474.2	136.8	89.5	76.6	67.9	64.3	68.3	71.3	72.1	71.9
67.5°	558.7	290.6	105.4	76.4	67.3	62.1	59.0	60.7	61.3	61.3	60.9
70°	274.7	156.4	84.0	64.3	57.8	56.0	54.2	53.2	52.2	51.4	51.4
72.5°	135.6	102.2	69.1	54.4	49.8	49.0	48.6	47.4	46.6	45.7	45.3
75°	100.2	83.2	58.8	45.9	42.9	42.1	42.9	41.9	41.7	40.9	40.5
77.5°	82.4	70.9	50.6	39.3	36.7	35.3	36.5	36.7	36.9	35.7	35.3
80°	66.9	59.9	42.3	32.6	30.2	29.2	30.0	31.6	32.0	30.2	29.4
82.5°	48.2	49.0	34.1	25.4	23.4	22.6	24.2	26.2	26.6	24.0	23.4
85°	40.5	40.9	26.2	18.1	16.1	14.9	17.5	19.5	20.8	18.3	17.7
87.5°	16.9	24.0	15.1	10.1	8.9	7.7	9.3	10.3	12.5	11.5	11.3
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)