

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: P193729

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193729
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-SL4-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA 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: 2720 lumens
Efficiency: N/A
Efficacy: 80.0 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 - 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: 25 FT

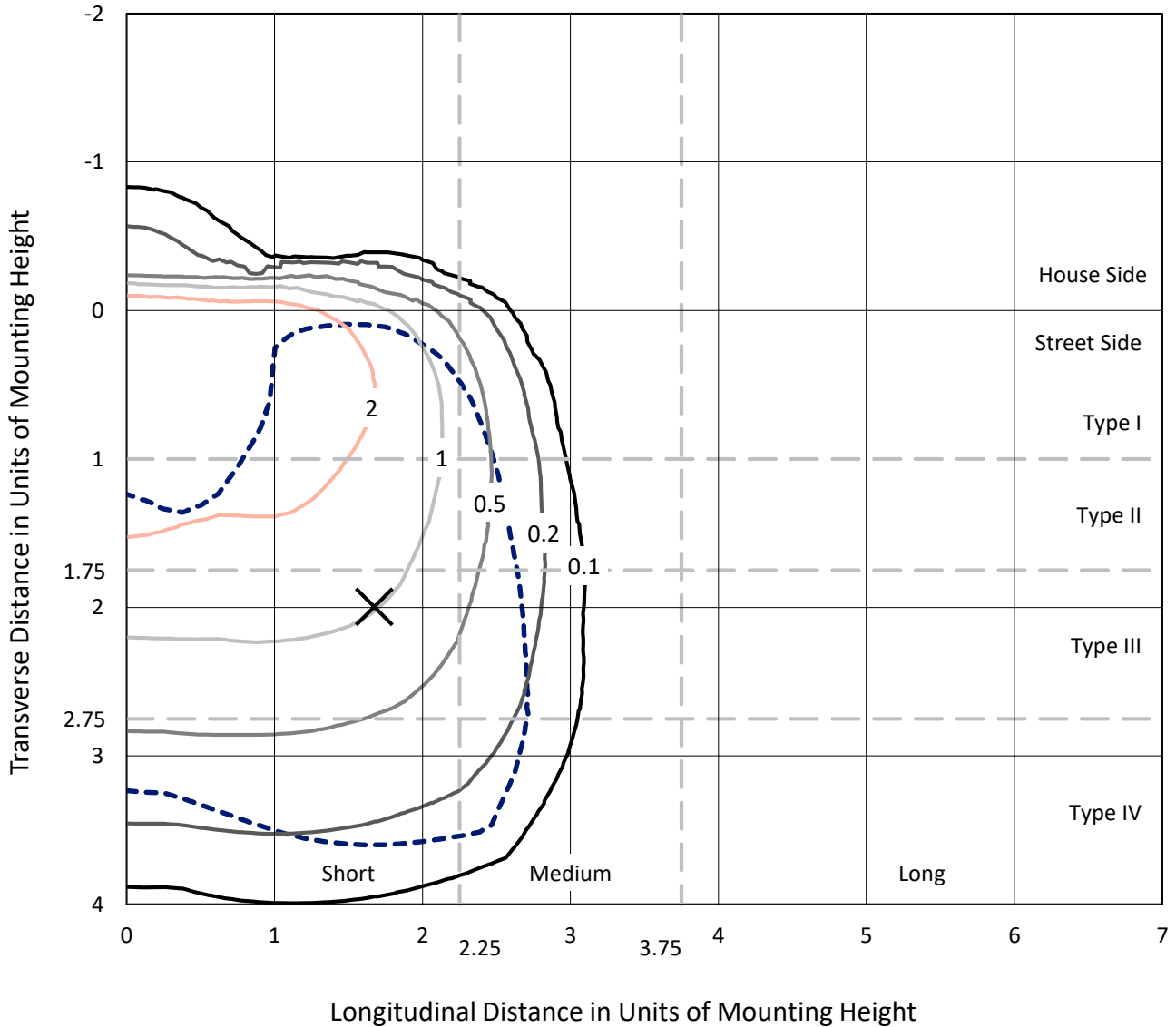


REPORT NUMBER: P193729

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

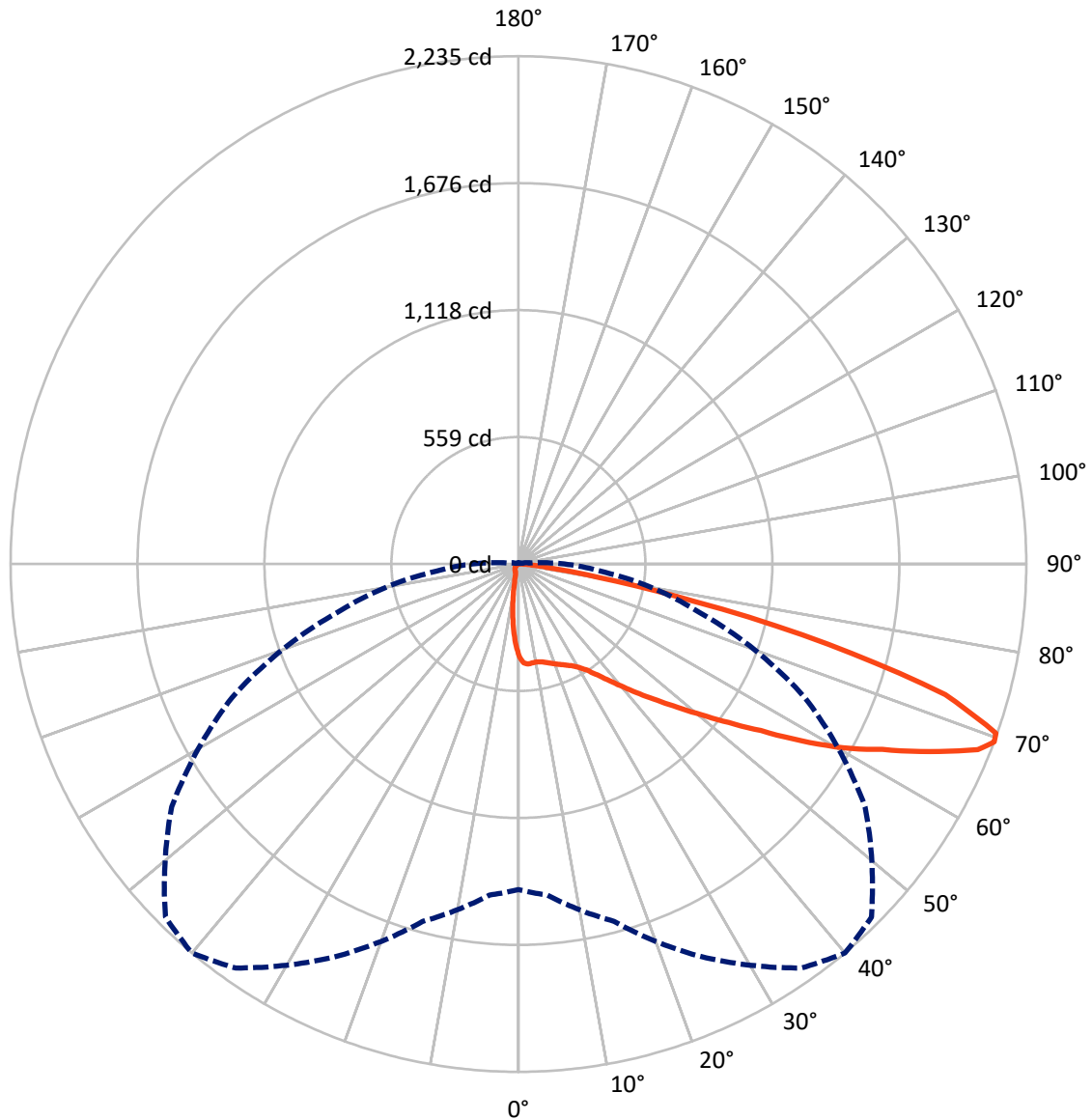


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193729

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193729

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-600-HSS

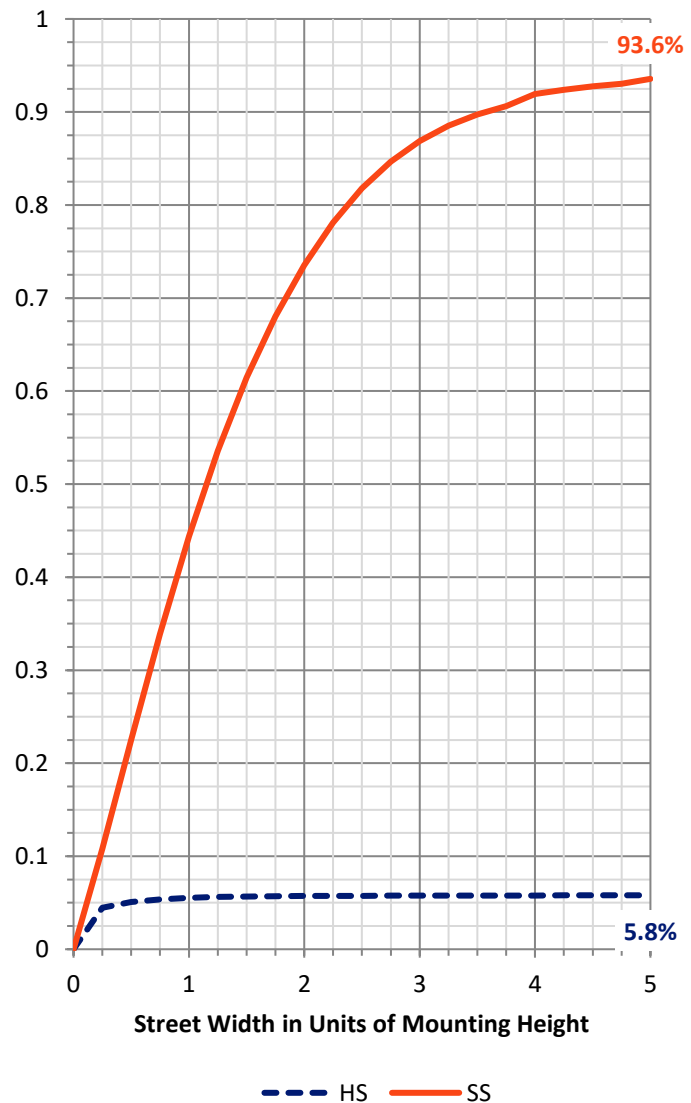
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	159.1	0.0	159.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	2560.9	0.0	2560.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	2720.0	0.0	2720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	1.2
10°-20°	81.0	3.0
20°-30°	136.5	5.0
30°-40°	223.4	8.2
40°-50°	386.8	14.2
50°-60°	609.3	22.4
60°-70°	795.8	29.3
70°-80°	409.9	15.1
80°-90°	44.3	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°	2720.0	100.0
0°-180°	2720.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193729

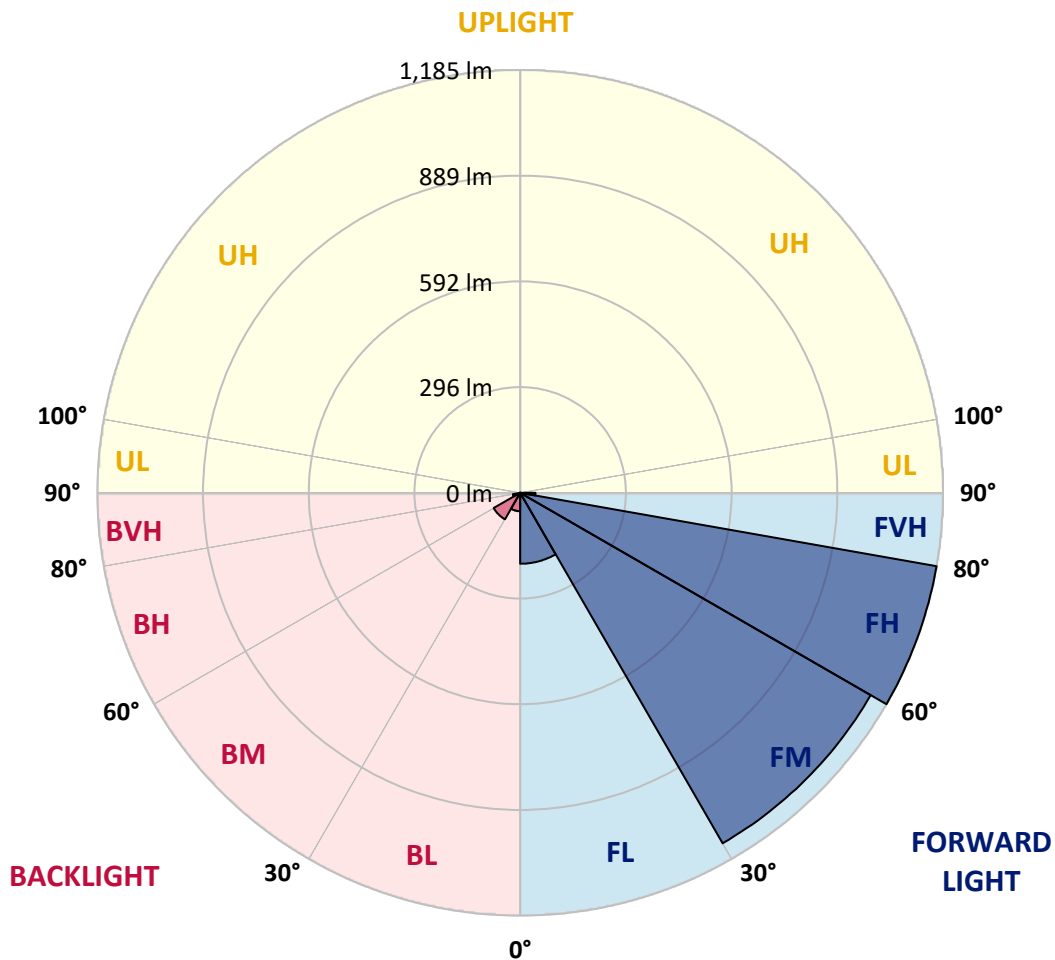
CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.9	7.3			
FM	(30°-60°)	1134.1	41.7			
FH	(60°-80°)	1184.9	43.6			G1/1800
FVH	(80°-90°)	42.9	1.6			G1/100
BL	(0°-30°)	51.5	1.9	B0/110		
BM	(30°-60°)	85.5	3.1	B0/220		
BH	(60°-80°)	20.7	0.8	B0/110		G0/110
BVH	(80°-90°)	1.4	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





REPORT NUMBER: P193729

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
2.5°	446.2	443.8	442.3	440.4	438.0	435.8	435.0	429.0	423.4	415.6	406.7
5°	454.5	453.7	451.1	448.5	445.6	442.3	440.5	433.4	425.3	414.0	398.4
7.5°	455.3	454.3	451.1	447.5	443.5	439.6	436.5	429.4	421.9	410.4	391.5
10°	454.0	452.8	450.4	446.5	441.5	437.8	434.7	427.9	421.6	411.2	390.2
12.5°	452.5	451.4	450.3	448.3	443.9	441.4	438.8	432.3	426.6	417.9	394.9
15°	454.0	453.3	454.6	453.8	451.4	449.1	446.5	440.7	435.5	428.2	403.5
17.5°	460.1	460.1	464.2	464.7	462.4	459.2	455.4	449.6	445.2	439.1	413.7
20°	474.5	474.1	479.2	480.2	474.7	469.7	464.2	457.1	453.7	449.8	423.7
22.5°	499.3	497.0	500.1	499.2	488.3	480.5	473.7	465.0	463.2	461.4	434.9
25°	531.5	530.2	532.3	522.8	503.7	493.2	485.1	475.2	475.2	477.0	447.5
27.5°	578.3	573.5	566.3	549.5	520.8	507.4	498.7	488.1	490.9	497.5	464.2
30°	626.2	620.9	604.6	578.6	541.7	527.6	517.4	506.4	512.9	525.1	486.5
32.5°	673.5	667.5	644.4	611.7	571.7	557.6	547.7	535.6	546.4	566.8	519.2
35°	719.3	714.0	687.3	648.8	611.5	599.9	590.8	580.3	594.2	622.7	565.4
37.5°	770.8	765.0	732.5	690.7	659.9	651.5	644.9	634.3	658.6	700.4	629.6
40°	834.1	824.3	780.4	738.8	715.9	711.9	707.4	705.9	743.6	801.4	715.3
42.5°	906.7	890.5	830.6	789.4	777.5	780.4	779.2	785.7	850.0	927.1	819.6
45°	979.2	958.3	886.4	843.5	845.1	855.3	861.7	887.6	983.3	1071.2	931.8
47.5°	1040.7	1020.2	940.0	902.0	921.4	941.5	958.6	1007.7	1120.2	1213.0	1019.0
50°	1093.3	1073.9	996.9	966.3	1010.0	1042.3	1070.2	1142.9	1267.6	1321.0	1080.2
52.5°	1136.4	1123.5	1055.8	1039.9	1111.2	1158.6	1199.4	1286.5	1398.1	1408.7	1127.8
55°	1178.3	1169.1	1119.1	1127.5	1230.0	1294.6	1346.2	1438.9	1510.4	1481.9	1173.5
57.5°	1226.6	1218.2	1191.3	1238.6	1386.2	1467.5	1523.9	1573.9	1609.3	1556.7	1216.6
60°	1275.8	1271.0	1271.6	1361.9	1565.6	1643.7	1674.7	1687.7	1706.5	1627.1	1219.0
62.5°	1322.8	1332.0	1363.4	1499.2	1737.4	1797.3	1813.0	1825.8	1803.8	1638.3	1126.2
65°	1402.3	1417.3	1492.3	1683.0	1926.3	1990.5	2006.7	1962.8	1819.2	1493.9	916.1
67.5°	1441.1	1468.6	1602.4	1854.3	2109.6	2180.9	2174.9	1971.7	1632.5	1139.2	587.9
69°	1433.0	1462.3	1627.8	1906.8	2170.5	2235.1	2197.1	1862.7	1390.8	825.2	360.9
70°	1401.0	1430.6	1614.7	1904.8	2178.3	2229.4	2155.9	1728.2	1175.9	603.4	225.7
72.5°	1169.9	1195.5	1433.5	1721.7	2006.7	1965.0	1803.6	1197.3	573.0	164.3	50.8
75°	720.2	734.4	1028.6	1297.0	1515.6	1408.7	1201.7	595.6	170.8	46.5	28.2
77.5°	380.5	387.0	563.1	764.5	960.7	795.0	615.9	232.3	78.7	29.1	20.4
80°	224.9	229.7	303.2	349.6	415.8	347.3	246.3	142.6	56.3	18.3	18.1
82.5°	128.7	131.8	219.9	194.3	163.8	139.9	122.6	135.2	33.8	12.3	18.8
85°	47.3	47.9	123.7	147.8	97.5	58.0	60.9	112.0	9.1	7.8	14.7
87.5°	22.0	21.5	63.6	90.5	57.0	36.8	47.4	24.6	3.6	5.0	4.0
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: P193729

CATALOG NUMBER: GLEON-AF-01-LED-E1-SL4-8030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
2.5°	401.5	395.5	384.7	373.5	362.2	353.4	344.9	338.1	335.8	331.6	331.9
5°	389.2	378.2	355.5	332.6	308.6	288.8	270.2	255.2	247.9	240.4	240.4
7.5°	378.5	362.5	327.0	289.6	251.0	218.4	189.1	167.1	154.9	145.2	145.1
10°	374.5	352.8	303.2	249.7	195.7	151.4	116.6	94.2	82.7	75.3	75.0
12.5°	376.3	349.4	285.0	212.7	145.1	97.3	67.5	53.1	48.2	46.0	46.0
15°	381.4	348.4	266.7	176.6	102.5	60.9	44.8	41.0	40.6	40.6	40.6
17.5°	387.8	348.7	247.9	141.5	69.8	43.6	38.7	38.2	38.5	38.5	38.5
20°	394.2	348.9	227.6	109.0	49.2	37.9	36.4	36.3	36.6	36.6	36.8
22.5°	402.2	349.7	207.4	81.4	40.6	35.8	34.6	34.6	34.8	34.8	34.6
25°	411.2	351.3	186.4	60.4	37.1	34.3	33.4	33.2	33.4	33.2	33.0
27.5°	422.6	353.6	162.9	47.3	35.5	32.9	32.1	32.1	31.9	31.7	31.6
30°	436.8	356.2	136.5	40.2	33.8	31.6	30.8	30.6	30.4	30.1	30.1
32.5°	458.5	361.9	110.4	36.4	32.1	29.8	29.1	29.1	28.8	28.5	28.3
35°	491.9	373.0	87.1	34.2	30.1	27.8	27.0	27.0	26.7	26.6	26.4
37.5°	538.0	390.0	67.7	32.1	28.2	25.7	24.9	24.8	24.4	24.1	24.0
40°	599.4	411.1	53.3	30.1	26.2	23.6	23.0	22.7	22.0	21.5	21.5
42.5°	676.4	435.0	43.2	28.0	24.0	21.7	21.2	20.7	19.6	19.1	18.9
45°	757.1	456.6	36.6	25.6	21.7	19.8	19.4	18.6	17.2	16.7	16.7
47.5°	815.2	461.6	32.2	23.3	19.6	17.6	17.5	16.0	14.7	14.4	14.2
50°	851.5	451.7	28.7	21.0	17.6	15.7	15.2	13.4	12.6	12.3	12.1
52.5°	875.9	434.1	25.7	19.1	15.9	13.9	12.8	11.5	10.8	10.5	10.5
55°	895.5	409.1	22.8	17.3	14.4	12.5	10.8	9.9	9.2	8.9	8.9
57.5°	901.0	375.3	19.9	15.9	13.0	11.0	9.2	8.6	7.8	7.6	7.6
60°	861.0	314.3	17.6	14.1	11.7	9.6	8.1	7.3	6.5	6.3	6.2
62.5°	755.6	243.2	15.5	12.5	10.2	8.3	7.0	6.0	5.3	5.3	5.3
65°	576.4	163.0	13.6	10.8	8.9	7.0	6.0	4.9	4.5	4.5	4.7
67.5°	345.0	88.7	11.7	9.2	7.6	5.8	5.0	4.2	4.0	4.2	4.2
69°	202.2	52.1	10.5	8.3	6.6	5.2	4.4	3.7	4.0	4.2	4.2
70°	124.8	35.1	9.7	7.4	6.0	4.7	4.0	3.6	3.9	4.0	4.0
72.5°	34.8	18.1	7.8	5.8	4.9	3.9	3.2	3.2	3.7	3.9	3.9
75°	22.7	13.4	6.0	4.4	3.7	3.1	2.8	3.1	3.6	3.7	3.7
77.5°	18.8	11.0	4.9	3.6	3.1	2.9	2.6	2.8	3.2	3.4	3.4
80°	17.2	7.8	3.9	3.2	2.8	2.6	2.4	2.3	2.9	3.1	3.1
82.5°	16.4	6.2	3.4	2.9	2.6	2.3	2.1	2.3	2.6	2.8	2.9
85°	10.2	4.0	3.1	2.8	2.3	2.1	2.1	2.1	2.4	2.6	2.6
87.5°	3.7	3.2	2.8	2.3	1.9	1.9	1.9	1.9	2.1	2.4	2.4
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)