

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: P322355

Luminaire Tested: **GLEON-SA1B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3206 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

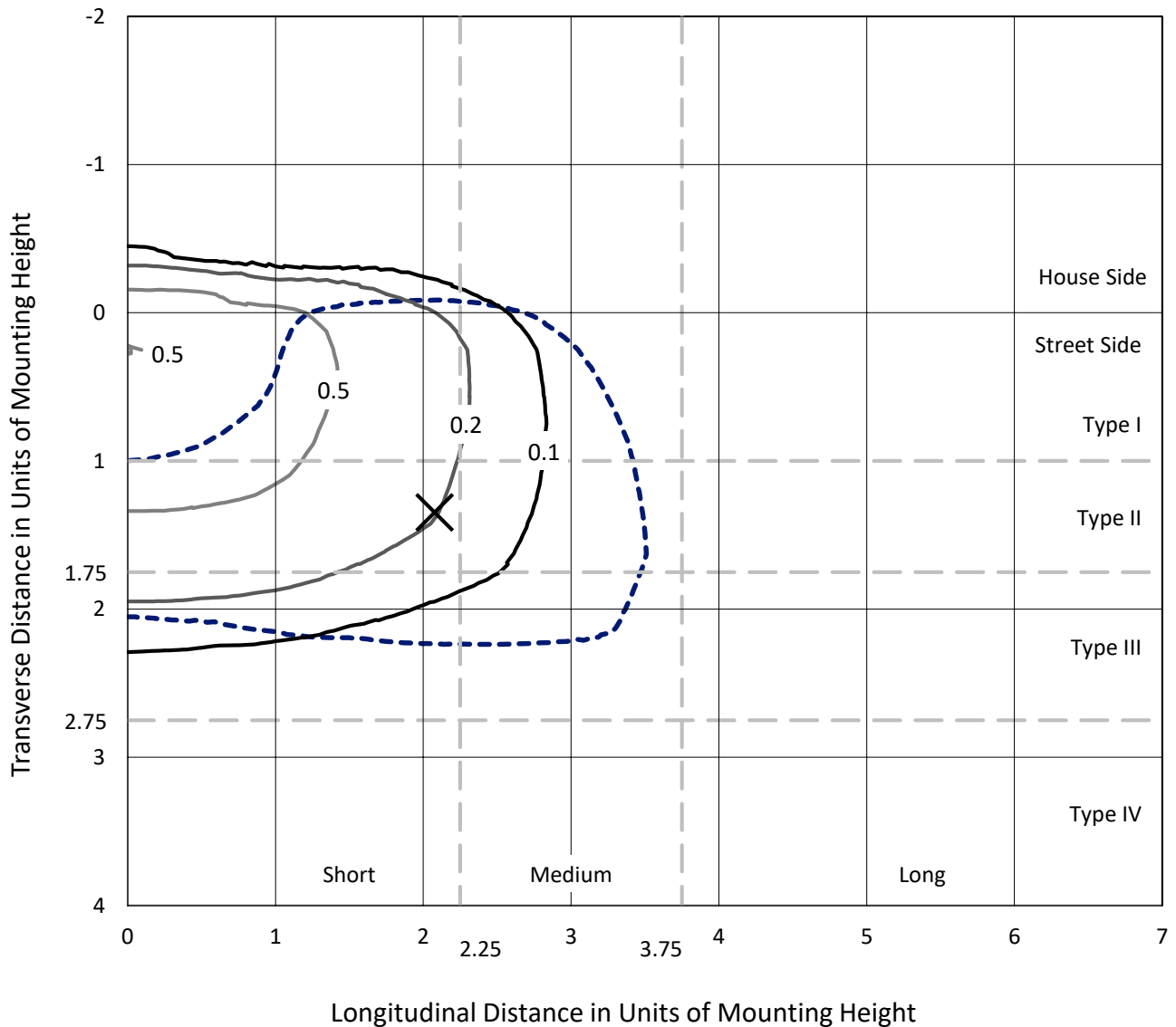
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

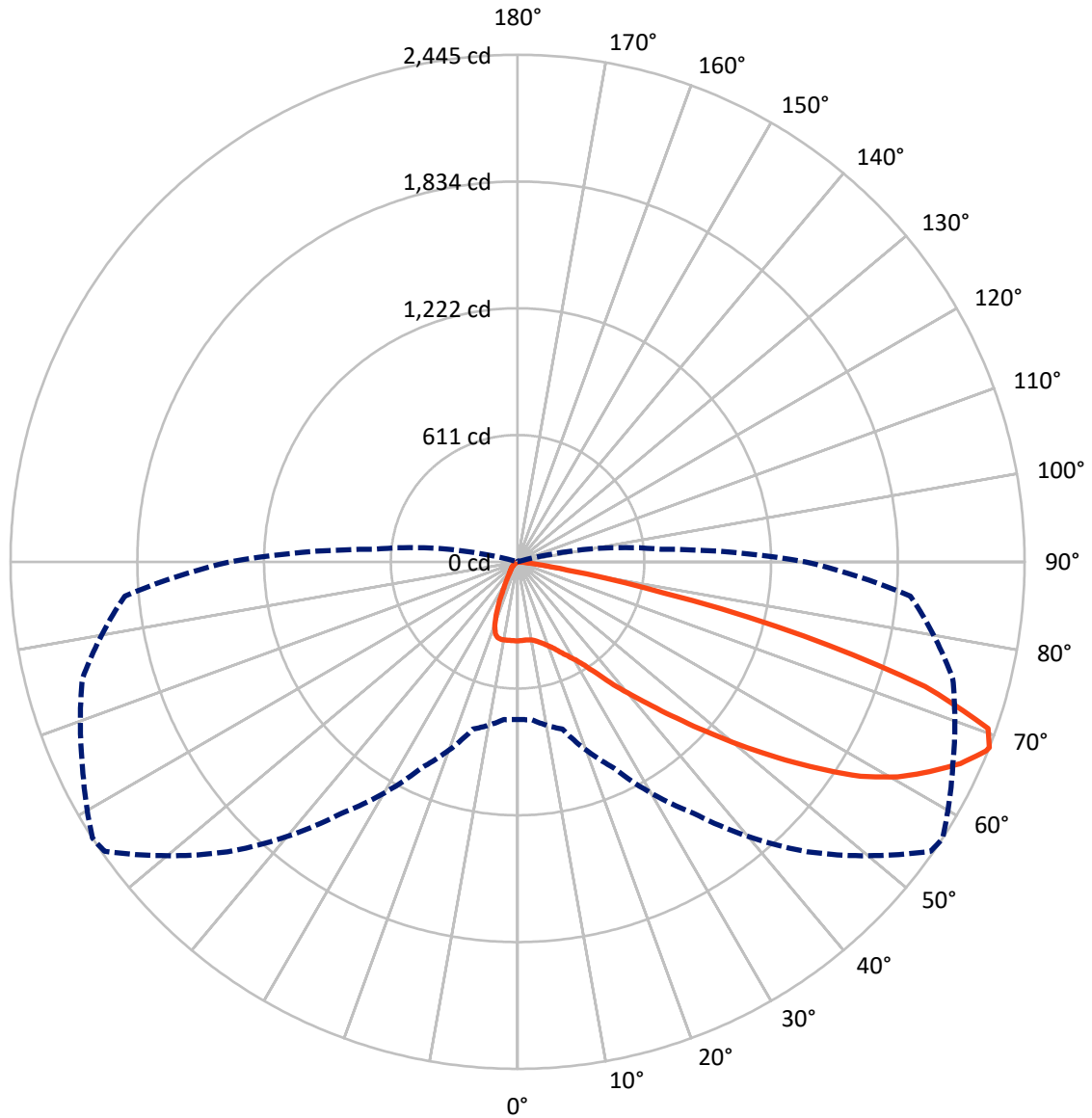
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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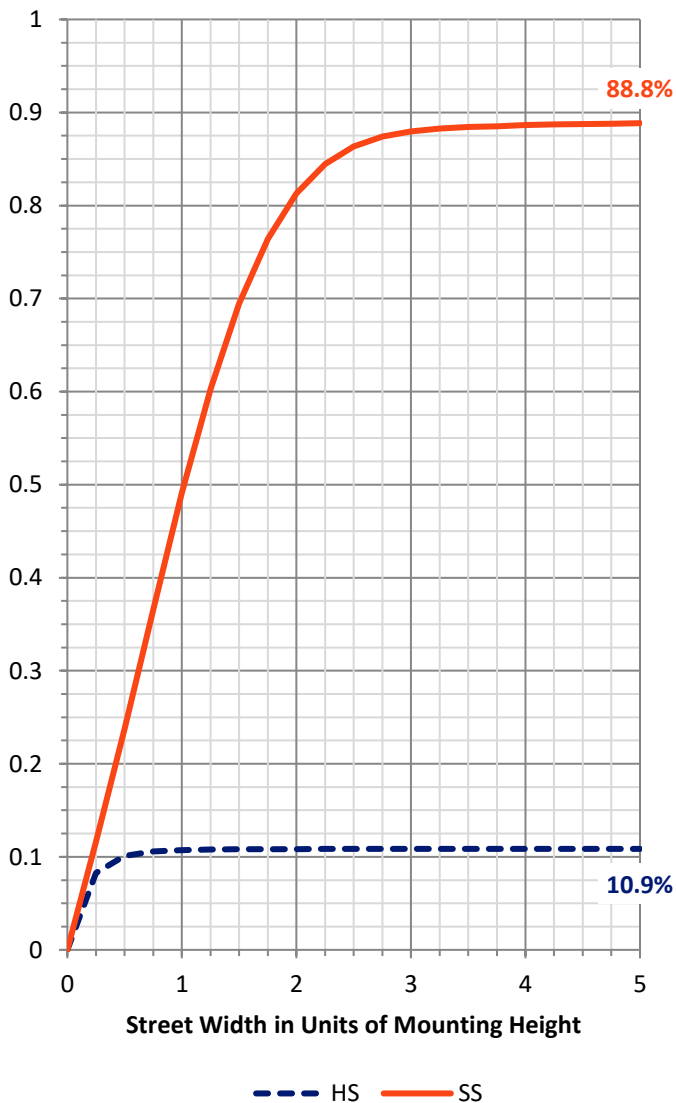
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.6	0.0	351.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2854.4	0.0	2854.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	3206.0	0.0	3206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.7	1.1
10°-20°	98.8	3.1
20°-30°	170.4	5.3
30°-40°	294.2	9.2
40°-50°	503.2	15.7
50°-60°	805.0	25.1
60°-70°	930.1	29.0
70°-80°	355.4	11.1
80°-90°	13.3	0.4
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°	3206.0	100.0
0°-180°	3206.0	100.0

Coefficient of Utilization

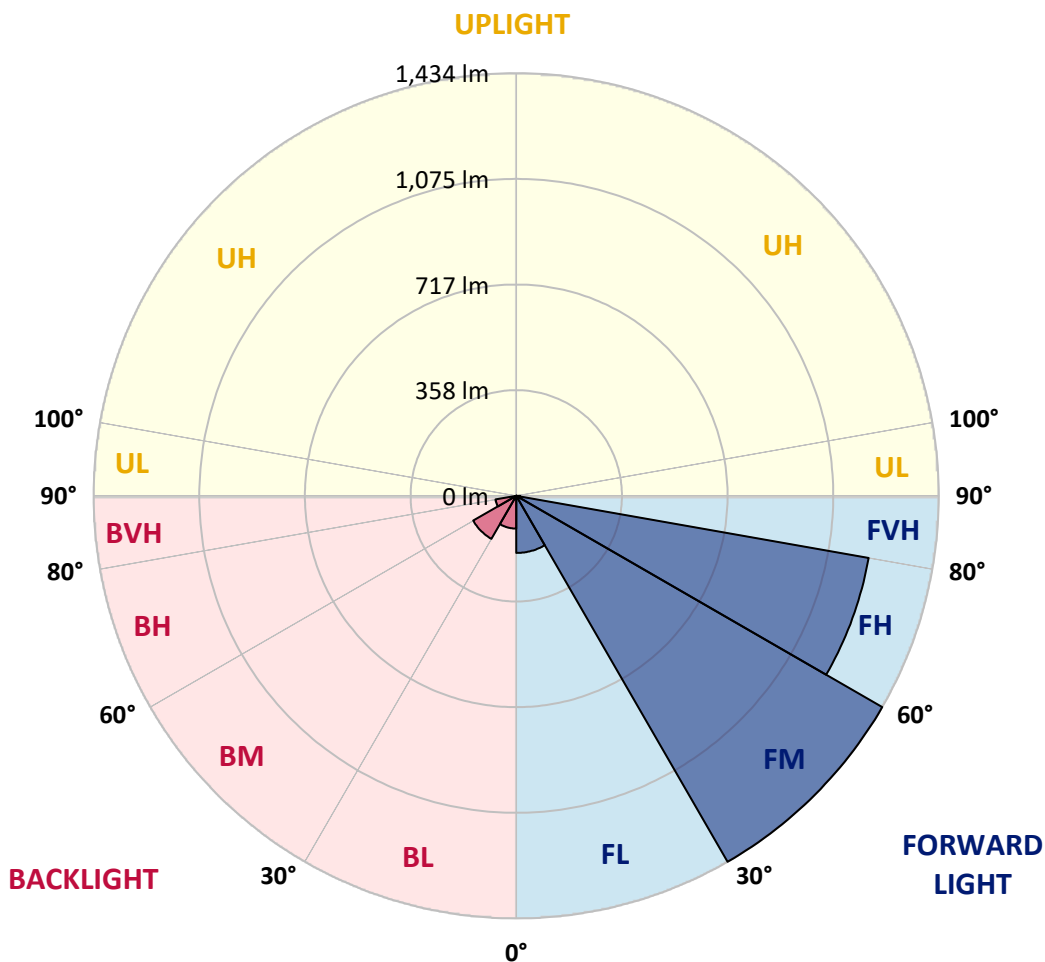


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.8	6.0			
FM (30°-60°)	1433.7	44.7			
FH (60°-80°)	1213.9	37.9			G1/1800
FVH (80°-90°)	13.1	0.4			G1/100
BL (0°-30°)	111.1	3.5	B1/500		
BM (30°-60°)	168.6	5.3	B0/220		
BH (60°-80°)	71.6	2.2	B0/110		G0/110
BVH (80°-90°)	0.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
2.5°	372.0	373.7	374.9	375.7	376.6	378.5	379.1	380.0	380.5	380.5	381.6
5°	357.3	359.1	361.7	363.8	368.1	373.5	377.5	379.0	381.7	384.1	385.5
7.5°	343.7	345.8	348.8	353.8	361.1	369.9	378.1	380.2	385.5	390.7	393.2
10°	334.9	336.5	340.5	347.6	357.2	369.4	381.0	383.5	392.6	401.3	406.1
12.5°	331.8	333.4	337.4	345.5	357.3	371.7	387.6	391.4	404.8	417.3	424.2
15°	336.2	336.5	340.9	348.5	360.2	377.3	398.7	403.2	420.1	436.4	444.9
17.5°	353.2	351.9	354.1	357.5	366.7	384.7	410.4	417.2	439.6	458.9	466.9
20°	395.7	395.7	390.5	381.4	381.6	396.3	426.1	433.9	461.3	483.6	490.9
22.5°	468.3	466.9	456.6	434.3	413.9	416.1	445.4	455.4	487.4	511.2	513.6
25°	555.6	553.9	538.0	506.6	471.2	448.3	471.5	483.0	518.5	539.5	534.5
27.5°	648.1	646.7	630.9	592.0	541.5	499.5	502.5	513.5	550.1	570.9	555.0
30°	737.7	738.1	722.5	682.5	625.3	564.8	542.0	548.3	580.9	602.0	579.2
32.5°	822.9	823.5	810.0	765.2	711.9	640.8	596.5	594.9	616.7	637.5	611.4
35°	898.8	900.3	891.1	856.4	799.8	725.4	667.3	663.4	667.5	691.0	660.6
37.5°	972.0	972.9	966.0	936.7	889.4	818.3	756.8	751.2	742.4	760.4	725.7
40°	1052.2	1049.9	1041.9	1015.4	974.8	920.9	852.9	843.2	827.9	843.9	811.2
42.5°	1126.8	1124.2	1125.6	1095.6	1061.3	1026.4	964.9	948.2	939.3	957.8	916.1
45°	1220.0	1218.7	1223.2	1197.1	1169.4	1144.1	1093.3	1075.1	1071.2	1092.8	1043.0
47.5°	1312.1	1315.4	1329.5	1318.4	1307.2	1284.9	1229.3	1221.1	1223.5	1249.7	1176.8
50°	1388.8	1392.7	1431.4	1444.1	1460.3	1447.3	1391.5	1386.5	1396.0	1419.7	1320.8
52.5°	1444.2	1452.3	1500.3	1559.0	1618.1	1626.9	1571.3	1566.7	1579.6	1583.3	1432.1
55°	1482.7	1489.9	1544.3	1651.6	1772.0	1809.9	1775.3	1757.7	1755.3	1719.4	1549.1
57.5°	1489.6	1488.8	1567.0	1711.5	1892.7	1990.4	1968.6	1951.3	1901.6	1845.2	1683.3
60°	1451.1	1455.5	1546.3	1732.3	1968.5	2127.0	2128.7	2106.3	2028.8	1967.5	1813.4
62.5°	1332.5	1350.4	1442.1	1677.8	1967.5	2182.1	2246.0	2228.9	2136.3	2067.8	1945.3
65°	1140.3	1146.7	1234.1	1491.4	1834.6	2159.0	2351.7	2345.3	2233.1	2165.1	2013.0
67.5°	832.7	818.9	910.8	1174.4	1553.2	2024.7	2427.5	2435.5	2307.9	2185.1	1940.9
68°	759.9	764.0	835.6	1096.0	1479.6	1977.2	2432.5	2444.8	2315.3	2172.0	1901.5
70°	453.0	460.8	524.7	754.6	1125.6	1708.8	2378.5	2406.6	2271.0	2037.6	1644.7
72.5°	115.7	125.1	185.4	337.8	642.9	1204.0	2007.9	2055.3	1971.8	1653.0	1110.3
75°	47.6	50.0	66.2	111.3	239.5	542.4	1323.4	1425.0	1366.9	989.6	501.8
77.5°	32.9	34.6	42.6	61.7	103.7	183.9	648.8	722.2	650.6	337.8	109.5
80°	23.6	25.0	30.5	41.1	59.6	65.6	211.5	244.5	194.2	74.1	27.1
82.5°	14.1	15.2	22.7	29.3	36.2	31.4	52.6	59.7	56.2	36.8	12.1
85°	7.0	8.2	15.3	20.9	19.6	13.2	16.1	17.9	22.1	22.4	6.5
87.5°	0.5	0.9	8.9	12.6	5.5	3.0	4.7	5.8	7.9	11.1	2.7
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°	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0	381.0
2.5°	382.0	382.2	381.1	380.7	381.0	379.1	378.4	378.7	378.7	379.1	378.4
5°	385.8	385.8	384.0	381.6	380.2	376.7	374.4	373.8	373.4	373.1	372.5
7.5°	394.0	393.1	389.9	384.6	380.0	372.5	366.7	363.7	362.2	361.6	361.1
10°	407.2	405.5	400.2	390.4	379.9	366.4	353.8	344.9	337.4	334.4	332.6
12.5°	424.9	422.5	413.6	397.2	378.8	354.0	326.7	300.5	276.1	266.0	261.0
15°	445.4	441.9	427.8	402.9	372.6	325.9	266.7	220.7	186.9	174.2	168.7
17.5°	466.2	461.6	440.2	406.6	354.0	267.9	187.1	141.3	118.7	112.6	110.5
20°	487.1	480.4	451.0	403.8	311.8	193.1	123.4	103.2	96.7	94.9	94.3
22.5°	506.9	496.6	460.7	393.2	246.9	129.6	97.6	91.3	89.1	88.1	87.8
25°	524.2	509.8	469.2	360.5	174.8	97.9	87.9	85.8	83.1	81.1	81.3
27.5°	540.4	523.0	474.3	306.5	116.6	83.7	81.4	78.5	73.5	70.6	70.6
30°	560.0	540.6	478.1	235.9	85.8	74.0	72.2	67.8	60.9	57.2	57.2
32.5°	589.4	567.3	475.7	165.5	71.1	65.0	60.8	54.7	47.3	43.7	43.5
35°	634.4	608.5	458.4	108.5	62.8	56.5	49.7	42.3	35.8	32.7	32.6
37.5°	695.1	663.7	419.6	77.6	56.2	48.7	40.5	32.3	27.4	25.5	25.3
40°	773.7	727.8	364.1	62.9	50.2	41.1	31.2	25.0	21.7	20.2	20.3
42.5°	868.2	796.5	297.6	54.3	44.3	33.8	24.4	19.7	17.6	16.5	16.2
45°	973.1	864.2	227.8	48.4	38.4	27.3	19.1	15.6	13.9	13.3	13.3
47.5°	1088.4	930.2	166.8	43.2	32.0	21.1	15.3	12.7	11.4	10.9	10.8
50°	1193.2	976.0	120.2	37.7	26.2	16.7	12.4	10.6	9.7	9.1	9.1
52.5°	1280.5	990.4	88.5	31.8	21.2	13.3	10.3	9.1	8.2	7.7	7.7
55°	1357.4	984.5	65.8	26.2	17.1	10.9	8.8	7.7	7.0	6.5	6.5
57.5°	1431.1	965.4	49.1	21.4	13.8	8.8	7.4	6.5	5.8	5.5	5.5
60°	1491.2	933.5	36.5	17.3	11.1	7.1	6.2	5.3	4.7	4.2	4.2
62.5°	1540.0	898.3	26.8	14.2	8.8	5.6	4.9	4.4	3.5	3.0	3.0
65°	1540.4	840.0	20.2	11.8	6.8	4.4	3.6	3.5	2.3	1.8	1.7
67.5°	1428.9	724.2	15.5	10.2	5.3	3.3	2.7	2.9	1.2	0.8	0.6
68°	1388.5	694.8	14.6	10.0	5.0	3.2	2.6	2.9	1.1	0.6	0.5
70°	1170.6	552.7	11.7	9.7	4.4	2.4	2.1	2.9	0.9	0.5	0.3
72.5°	748.7	320.8	8.6	7.7	3.3	1.8	1.4	2.6	0.9	0.3	0.2
75°	318.7	99.4	5.9	5.5	2.0	1.4	0.9	1.7	0.6	0.2	0.0
77.5°	67.2	22.4	3.5	3.3	1.4	0.9	0.6	0.5	0.2	0.0	0.0
80°	17.3	6.5	1.8	1.7	0.8	0.5	0.3	0.0	0.0	0.0	0.0
82.5°	5.5	2.6	1.1	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.5	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.5	0.2	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)