

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: P193379

Luminaire Tested: **GLEON-AF-01-LED-E1-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4238 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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: 25 FT

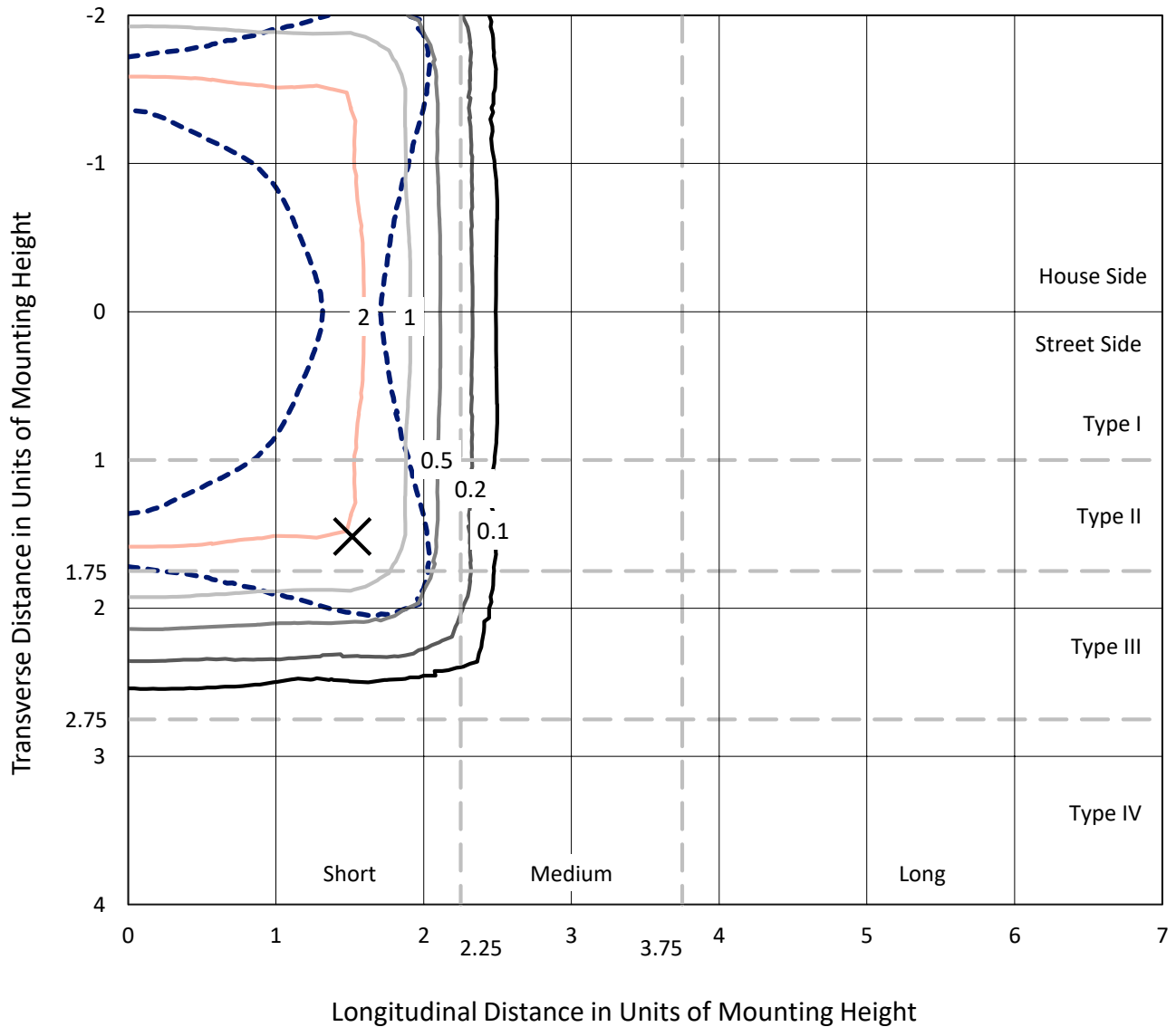


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

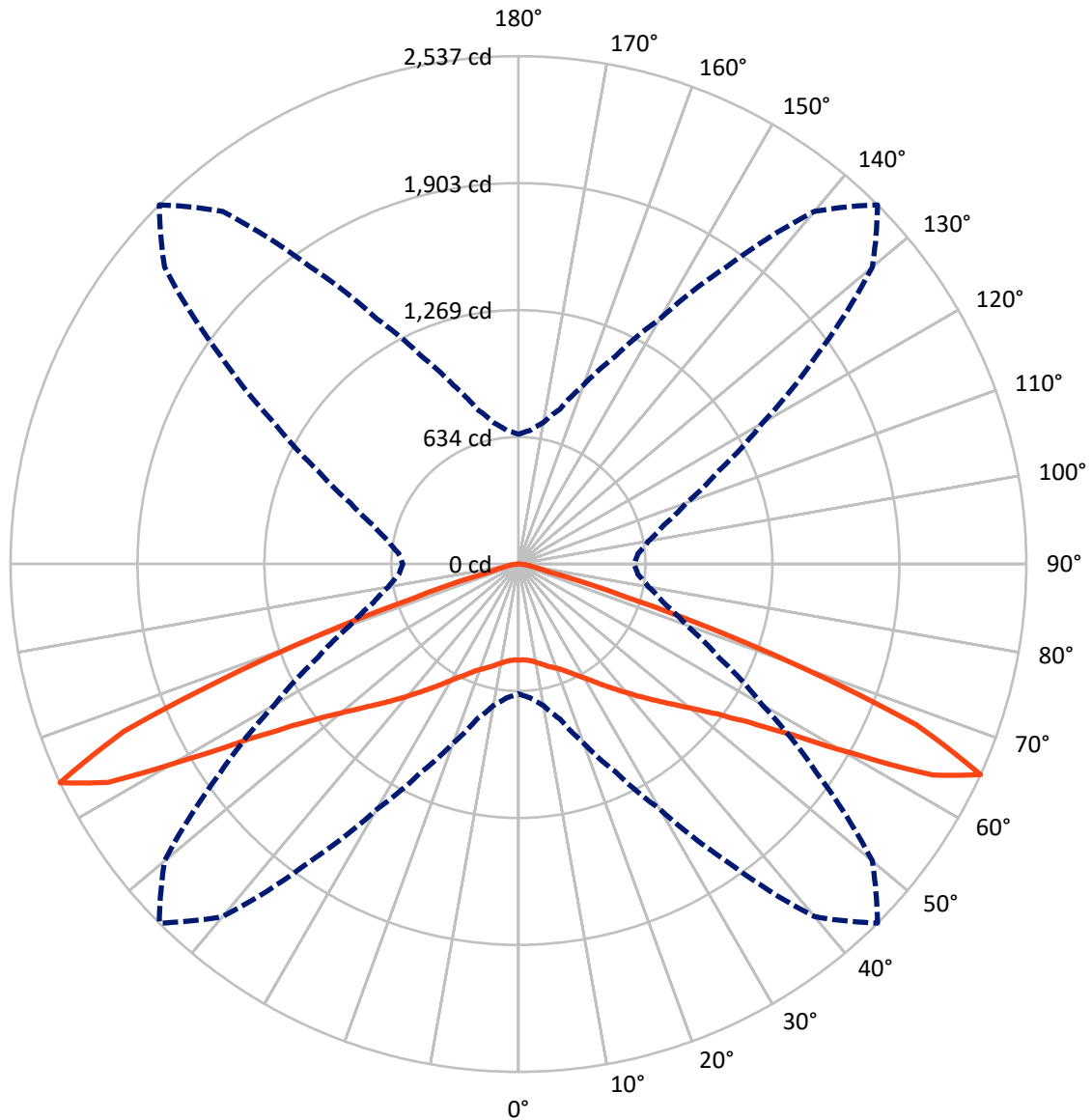


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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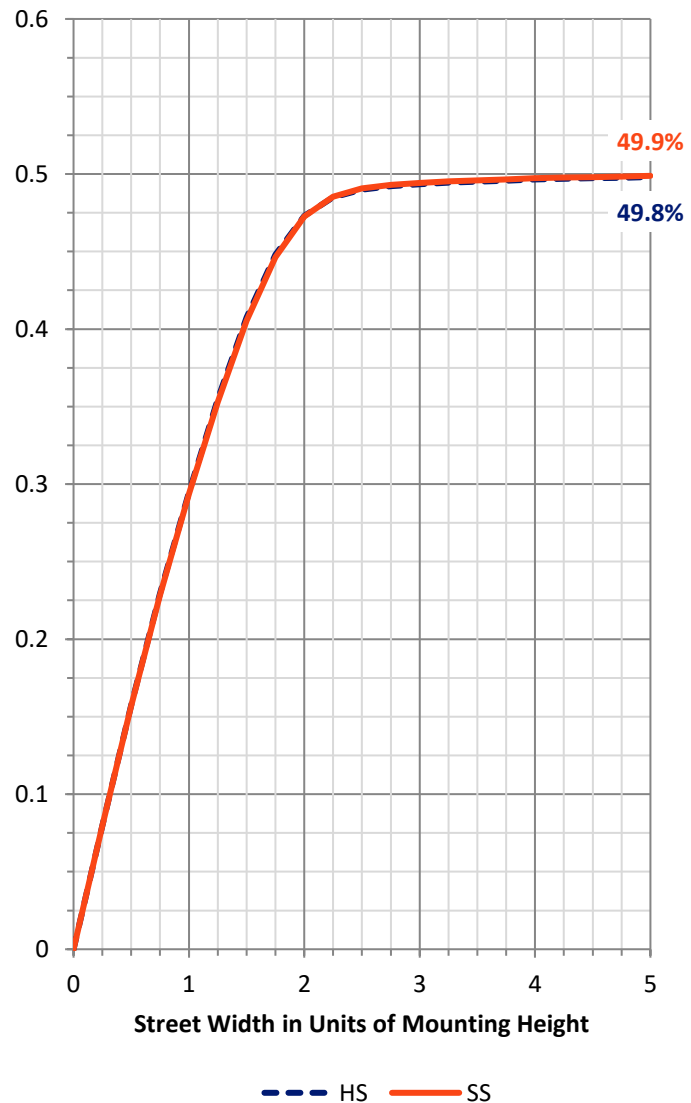
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2119.0	0.0	2119.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2119.0	0.0	2119.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4238.0	0.0	4238.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.1
10°-20°	149.9	3.5
20°-30°	280.3	6.6
30°-40°	474.0	11.2
40°-50°	775.1	18.3
50°-60°	1232.5	29.1
60°-70°	1114.1	26.3
70°-80°	141.0	3.3
80°-90°	24.2	0.6
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°	4238.0	100.0
0°-180°	4238.0	100.0



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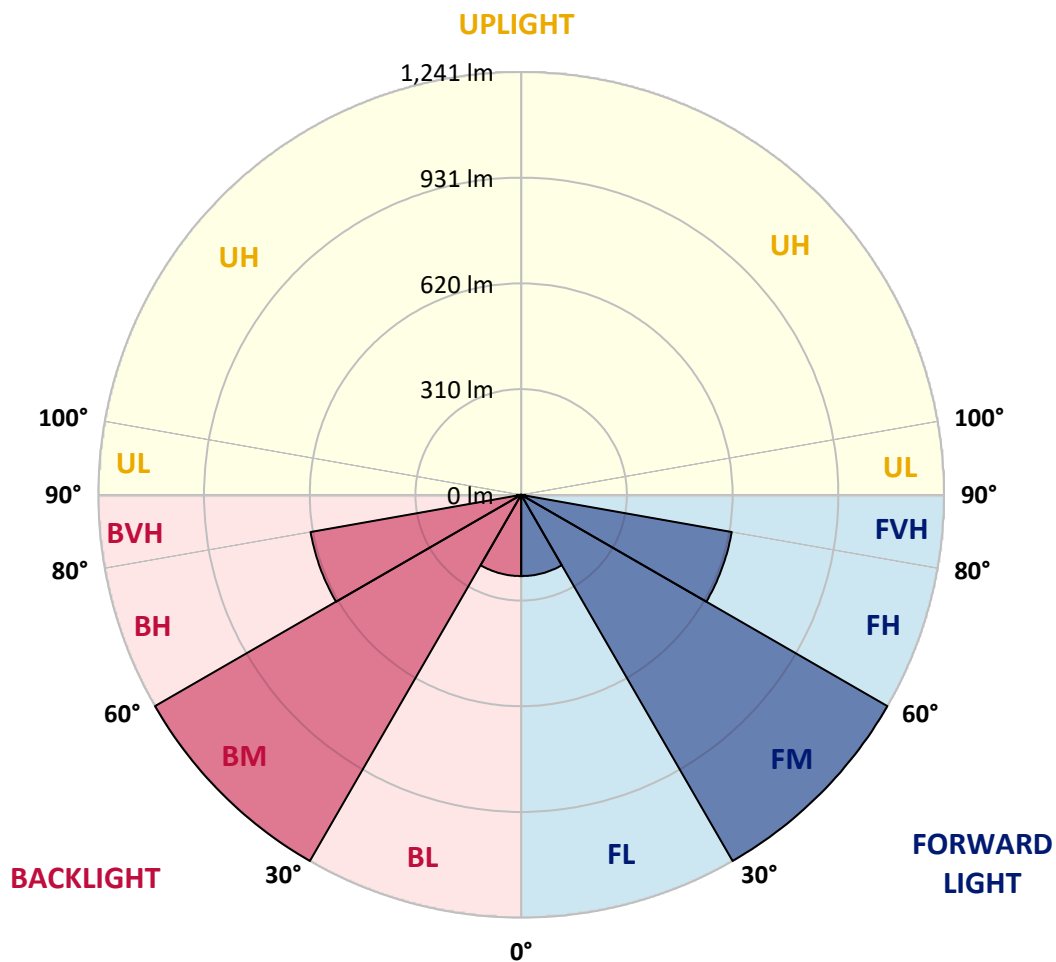
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.5	5.6			
FM	(30°-60°)	1240.8	29.3			
FH	(60°-80°)	627.6	14.8			G0/660
FVH	(80°-90°)	12.1	0.3			G1/100
BL	(0°-30°)	238.5	5.6	B1/500		
BM	(30°-60°)	1240.8	29.3	B2/2500		
BH	(60°-80°)	627.6	14.8	B2/1000		G0/660
BVH	(80°-90°)	12.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5
2.5°	479.9	480.3	480.7	480.3	480.7	480.1	479.7	480.3	479.7	479.1	479.5
5°	484.1	484.3	484.3	483.7	484.3	483.9	483.3	484.1	483.5	482.9	483.3
7.5°	491.0	491.8	491.2	490.6	491.0	490.6	490.2	490.4	490.2	489.7	489.9
10°	500.4	501.0	500.6	500.4	500.8	500.6	500.2	500.0	500.2	499.6	499.6
12.5°	511.7	511.5	511.3	511.5	512.1	512.1	511.9	512.1	512.5	512.7	512.3
15°	522.8	523.2	523.2	523.2	524.4	525.4	526.0	526.4	527.2	527.4	526.6
17.5°	536.7	536.7	536.5	536.7	537.9	539.5	540.1	540.9	541.7	542.3	541.3
20°	552.2	552.6	552.6	553.0	554.6	556.3	556.3	556.7	556.3	556.7	556.1
22.5°	571.0	572.2	572.2	572.4	574.0	576.2	575.6	576.2	575.2	576.0	575.2
25°	595.6	597.4	597.0	597.0	598.2	599.6	599.8	601.0	600.8	601.8	601.2
27.5°	623.4	626.2	627.0	626.8	627.6	629.0	629.4	630.8	630.0	630.8	630.4
30°	656.8	658.0	659.6	660.2	661.1	662.5	662.5	662.7	661.7	662.9	663.5
32.5°	691.3	693.5	695.1	698.7	700.4	701.4	701.2	701.6	700.6	702.2	703.4
35°	737.0	738.6	741.1	743.9	746.3	746.1	745.5	745.7	745.7	747.1	748.3
37.5°	791.9	792.3	795.7	799.7	800.9	799.7	796.1	795.3	793.5	795.3	797.3
40°	850.1	851.5	858.2	860.8	861.4	859.2	854.1	851.1	847.1	849.3	852.1
42.5°	911.0	913.8	920.0	924.5	926.5	925.1	918.0	913.4	908.3	909.4	912.2
45°	978.5	981.9	990.6	995.0	998.8	996.6	989.6	982.7	974.5	975.1	979.5
47.5°	1053.9	1057.3	1068.6	1076.0	1078.0	1077.6	1069.8	1060.3	1049.2	1048.8	1052.5
50°	1138.5	1141.9	1156.0	1167.3	1173.0	1172.4	1163.3	1149.8	1136.3	1136.5	1141.3
52.5°	1221.1	1225.2	1239.9	1259.4	1270.7	1278.8	1273.3	1260.6	1244.1	1244.5	1248.8
55°	1298.5	1305.4	1322.3	1348.7	1369.7	1392.5	1399.1	1398.7	1388.8	1391.6	1395.9
57.5°	1336.0	1346.3	1372.3	1414.0	1456.9	1503.3	1542.6	1572.0	1584.5	1603.3	1599.0
60°	1264.9	1281.4	1319.7	1381.0	1465.8	1562.6	1666.5	1767.9	1854.4	1919.7	1882.2
62.5°	1035.7	1057.1	1103.6	1182.2	1310.4	1465.4	1664.1	1903.8	2165.0	2322.6	2210.1
65°	648.0	670.3	717.5	801.7	951.7	1144.4	1414.0	1811.3	2299.4	2537.0	2307.9
67.5°	252.7	264.8	290.4	344.2	456.9	628.4	898.9	1349.9	1933.6	2141.8	1897.7
70°	126.6	127.8	132.6	142.5	166.7	216.5	329.5	625.8	1108.9	1339.4	1069.0
72.5°	91.5	91.7	94.1	98.4	106.2	117.3	138.7	191.5	360.6	551.2	338.0
75°	70.1	70.9	72.2	74.6	78.8	84.4	92.1	110.4	136.8	158.6	133.4
77.5°	54.0	55.6	56.6	58.8	61.3	65.1	67.3	74.2	86.3	90.9	89.5
80°	41.1	42.5	44.7	46.4	48.2	50.0	49.2	52.4	58.8	62.5	60.5
82.5°	26.2	27.8	34.1	35.7	36.5	37.7	36.3	36.5	39.3	41.7	39.3
85°	16.9	17.9	21.6	23.6	23.8	24.6	24.0	22.6	22.6	20.6	23.2
87.5°	7.7	7.9	9.7	11.5	11.9	10.7	10.5	10.1	8.1	7.7	8.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	479.5	479.5	479.5	479.5	479.5	479.5	479.5	479.5
2.5°	479.3	479.7	479.9	480.5	480.7	480.7	480.9	481.3
5°	483.1	483.7	483.9	484.7	484.9	484.7	485.1	485.3
7.5°	489.9	490.8	491.2	492.0	491.4	492.2	492.4	492.4
10°	499.8	500.8	501.0	501.8	501.4	501.8	501.8	501.4
12.5°	512.9	513.1	512.5	513.1	512.3	512.7	512.1	511.7
15°	527.4	526.8	525.4	525.4	524.2	524.4	524.2	524.0
17.5°	541.5	540.3	539.3	538.9	537.9	537.7	537.1	537.1
20°	556.9	556.3	555.7	555.0	554.0	553.0	552.8	553.2
22.5°	575.6	575.4	575.4	575.0	573.6	572.6	572.0	572.0
25°	600.6	598.8	598.8	598.6	598.0	597.4	596.2	596.8
27.5°	628.8	627.8	628.6	628.4	627.8	627.8	627.0	627.0
30°	663.5	663.1	664.3	663.3	661.3	661.1	660.3	659.4
32.5°	703.6	703.2	705.0	703.8	700.6	698.9	697.3	696.5
35°	748.3	748.5	750.7	749.9	746.3	745.1	742.3	741.9
37.5°	797.1	800.3	804.0	804.8	801.9	801.1	798.1	796.5
40°	854.5	858.6	864.4	865.8	862.6	862.0	857.8	855.7
42.5°	915.6	922.7	929.9	931.1	927.9	924.7	920.8	919.2
45°	983.9	992.4	1001.7	1004.1	999.4	995.6	990.4	990.4
47.5°	1060.5	1071.2	1081.7	1088.3	1083.9	1079.9	1073.8	1069.8
50°	1151.0	1165.7	1179.4	1186.1	1179.2	1171.6	1160.9	1157.3
52.5°	1264.5	1280.4	1292.3	1288.7	1278.0	1267.5	1255.8	1251.0
55°	1409.4	1414.8	1414.8	1401.3	1379.8	1362.2	1343.7	1337.6
57.5°	1590.6	1570.0	1538.2	1497.9	1447.3	1403.3	1373.5	1359.4
60°	1803.6	1704.4	1592.2	1482.1	1391.6	1316.9	1272.7	1252.4
62.5°	1945.5	1685.9	1461.2	1284.4	1154.2	1064.3	1003.1	979.3
65°	1818.3	1406.0	1105.1	893.6	751.7	660.2	599.6	577.4
67.5°	1331.8	881.1	588.5	421.8	309.0	246.5	221.7	211.4
70°	597.8	310.2	190.1	148.5	128.0	117.5	112.9	111.3
72.5°	180.2	130.4	110.0	99.2	91.1	85.9	82.2	81.8
75°	108.8	90.5	80.4	74.0	68.9	64.7	62.7	62.1
77.5°	76.0	66.5	61.7	57.2	53.2	50.0	48.2	46.8
80°	53.4	48.8	46.6	44.1	41.5	38.5	35.9	34.7
82.5°	35.7	34.7	34.7	33.1	31.0	28.2	23.0	21.8
85°	23.0	22.8	23.2	22.6	21.0	18.1	14.9	14.1
87.5°	10.7	10.9	12.1	11.9	11.5	9.5	7.5	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)