

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: P317555

Luminaire Tested: **GLEON-SA1B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
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-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

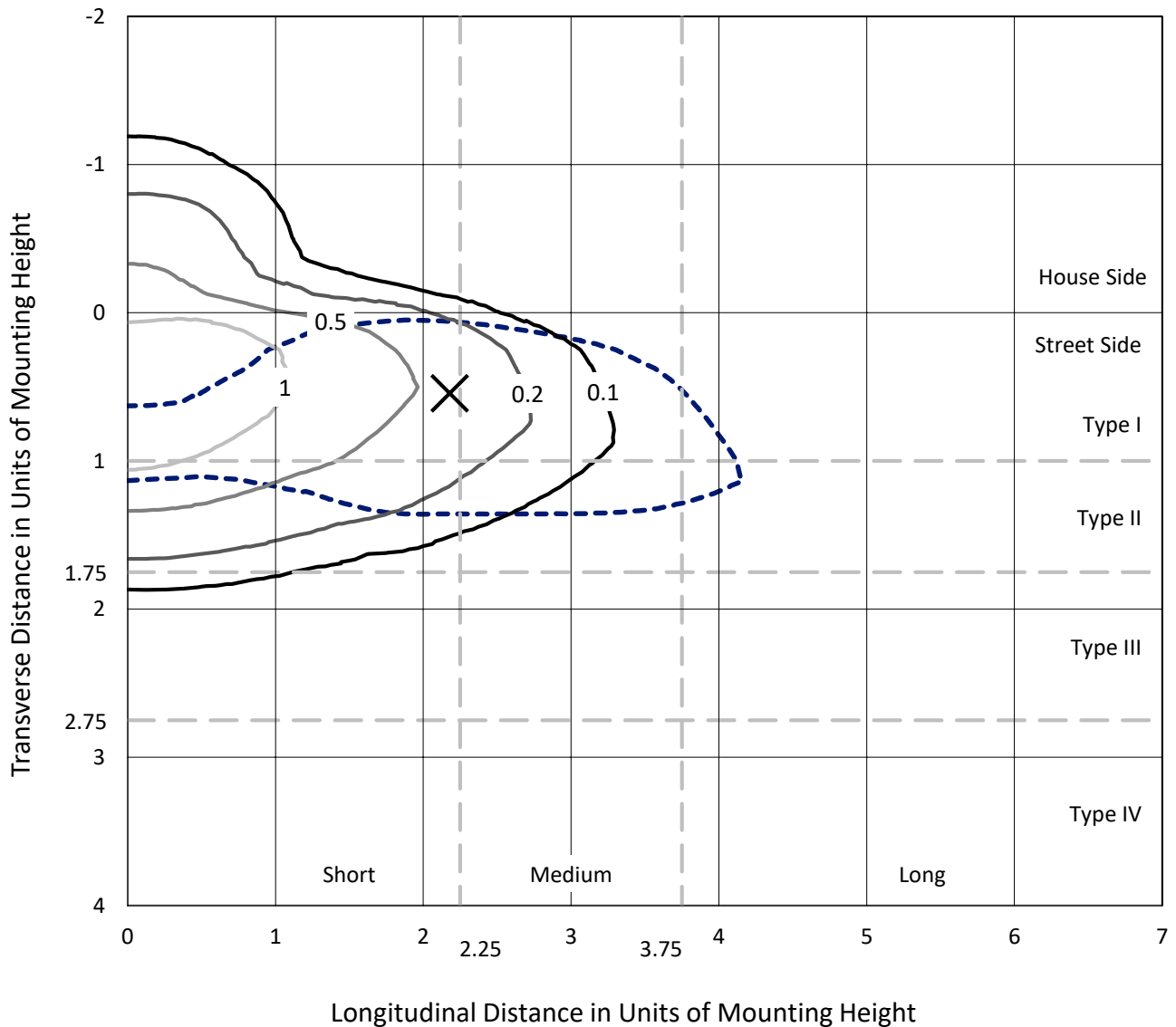
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

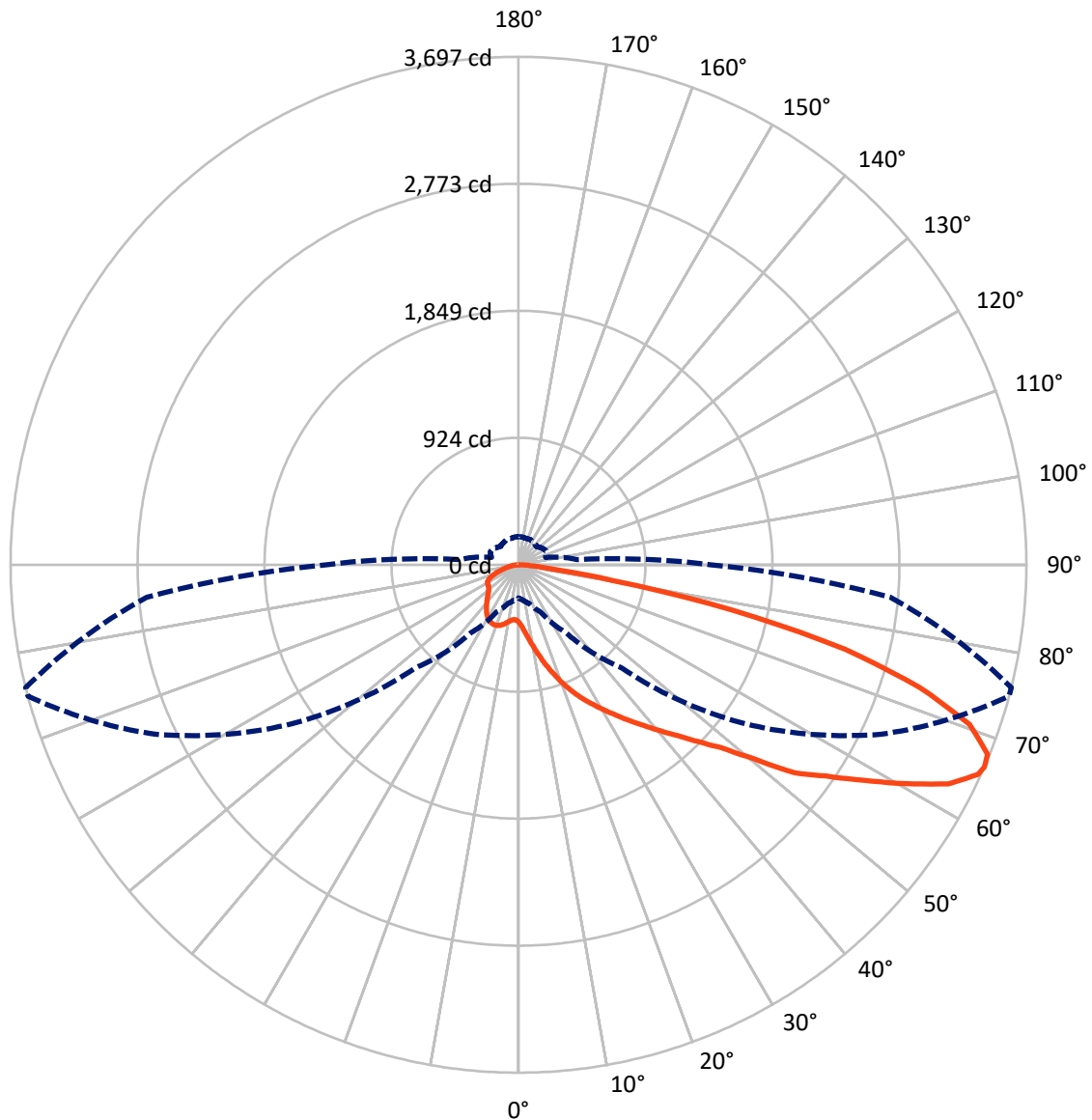
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

REPORT NUMBER: P317555
CATALOG NUMBER: GLEON-SA1B-827-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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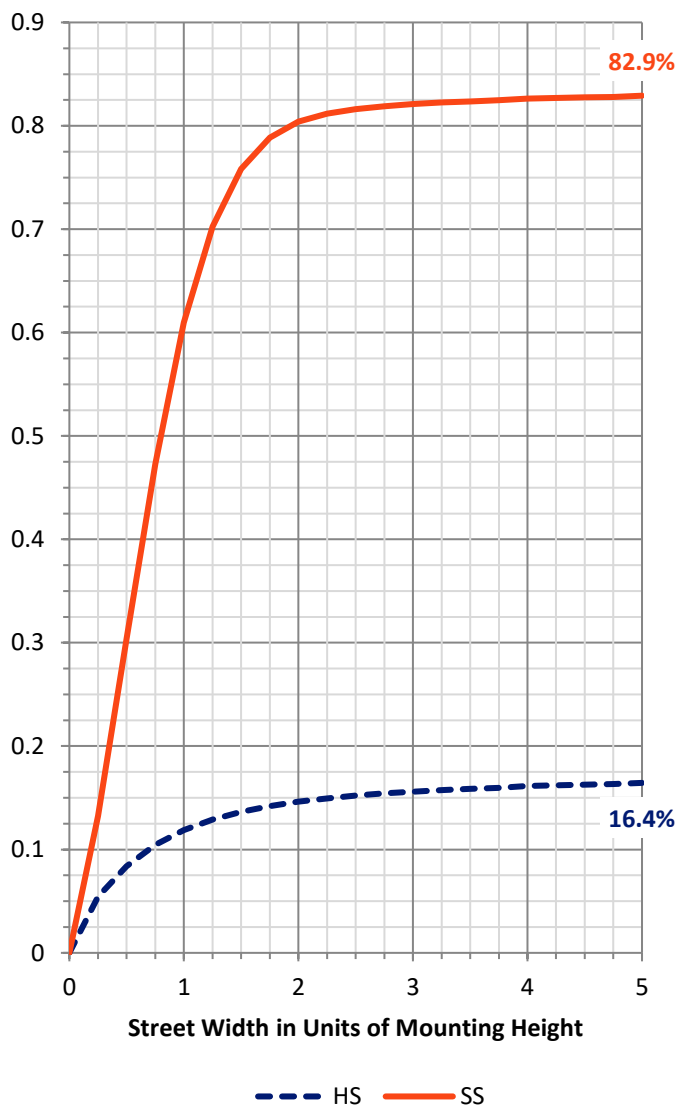
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	771.0	0.0	771.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3811.0	0.0	3811.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	4582.0	0.0	4582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	1.1
10°-20°	199.8	4.4
20°-30°	388.3	8.5
30°-40°	633.8	13.8
40°-50°	865.9	18.9
50°-60°	1008.6	22.0
60°-70°	904.2	19.7
70°-80°	457.0	10.0
80°-90°	73.8	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°	4582.0	100.0
0°-180°	4582.0	100.0

Coefficient of Utilization

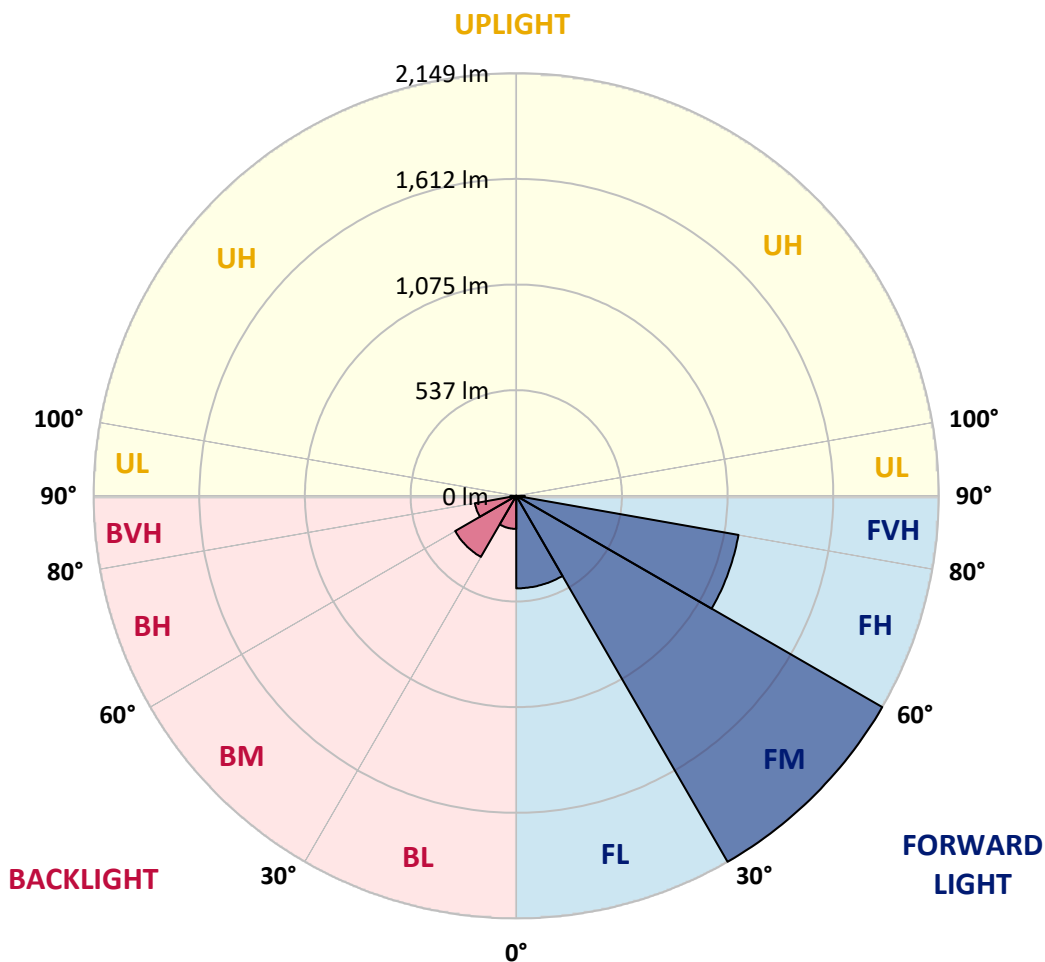


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	470.6	10.3			
FM (30°-60°)	2149.3	46.9			
FH (60°-80°)	1147.6	25.0			G1/1800
FVH (80°-90°)	43.6	1.0			G1/100
BL (0°-30°)	168.2	3.7	B1/500		
BM (30°-60°)	359.0	7.8	B1/1000		
BH (60°-80°)	213.6	4.7	B1/500		G1/500
BVH (80°-90°)	30.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4
2.5°	555.5	547.1	546.3	534.0	531.2	507.7	490.5	472.4	451.9	447.8	431.7
5°	713.5	712.7	702.0	681.9	666.2	626.1	586.4	544.4	498.4	490.9	454.5
7.5°	855.7	854.5	846.2	824.6	801.9	752.6	695.9	631.5	556.9	545.8	485.5
10°	963.7	963.2	960.4	944.5	925.2	877.9	815.4	727.5	624.9	609.8	524.2
12.5°	1047.0	1048.0	1049.8	1044.2	1035.1	994.8	930.7	829.3	697.3	682.4	567.3
15°	1103.5	1106.3	1115.9	1123.9	1128.7	1104.0	1041.9	933.3	778.5	760.7	615.1
17.5°	1132.0	1135.1	1151.7	1175.7	1197.8	1195.3	1146.0	1032.6	856.5	839.2	666.4
20°	1156.5	1158.9	1177.5	1206.3	1245.4	1262.6	1234.9	1128.1	941.9	921.3	720.8
22.5°	1227.8	1230.7	1236.3	1252.7	1287.2	1318.9	1305.6	1218.5	1020.1	1001.0	772.5
25°	1365.3	1368.9	1356.7	1342.9	1349.4	1371.5	1374.0	1300.9	1099.5	1077.8	828.0
27.5°	1531.0	1536.1	1515.4	1479.8	1448.7	1440.1	1437.2	1368.4	1175.2	1150.2	882.9
30°	1693.2	1702.1	1675.2	1629.0	1571.9	1531.7	1502.0	1434.5	1249.9	1225.9	934.7
32.5°	1851.7	1848.1	1809.1	1764.0	1697.1	1646.8	1575.0	1505.5	1333.9	1306.3	986.2
35°	1960.3	1961.5	1925.3	1871.8	1808.0	1769.4	1672.7	1582.0	1419.6	1394.2	1044.7
37.5°	2052.7	2046.9	2005.9	1955.9	1901.0	1884.5	1787.0	1666.3	1512.5	1484.8	1106.9
40°	2083.5	2076.8	2049.9	2014.0	1969.9	1968.5	1913.2	1761.8	1617.4	1590.1	1177.1
42.5°	2064.8	2056.3	2045.2	2035.4	2021.9	2028.1	2031.7	1873.8	1732.9	1702.2	1258.3
45°	1995.9	1983.0	1990.8	2012.1	2041.5	2076.6	2138.7	1997.8	1862.1	1836.5	1353.6
47.5°	1890.0	1878.3	1902.6	1948.2	2028.1	2117.1	2240.0	2134.7	2016.4	1990.9	1489.4
50°	1741.0	1744.4	1779.1	1862.0	1982.8	2135.8	2364.7	2315.9	2240.8	2217.0	1674.7
52.5°	1496.4	1497.1	1594.7	1730.8	1902.6	2126.1	2434.0	2547.5	2547.0	2518.3	1851.1
55°	1269.3	1283.2	1360.5	1541.4	1772.5	2087.5	2482.3	2660.1	2748.2	2714.4	2015.5
57.5°	1047.5	1055.6	1128.9	1310.5	1587.0	1984.7	2532.0	2795.3	2979.9	2958.6	2219.9
60°	795.2	807.6	883.4	1051.2	1349.6	1802.2	2536.6	2936.4	3257.0	3235.5	2448.1
62.5°	516.1	537.6	608.5	765.8	1062.4	1539.8	2428.4	3028.6	3519.6	3511.9	2650.6
65°	296.6	312.8	362.1	483.5	733.0	1210.4	2170.9	2993.2	3681.2	3676.8	2726.4
66°	242.4	252.5	290.3	377.8	604.8	1062.9	2021.3	2918.3	3697.2	3697.4	2717.7
67.5°	193.8	198.3	215.3	270.5	446.3	842.5	1753.9	2753.3	3677.3	3682.7	2661.5
70°	160.4	162.7	168.0	181.4	243.6	508.0	1244.9	2324.4	3477.4	3481.6	2442.4
72.5°	143.9	145.3	147.3	149.2	171.9	283.9	760.3	1859.5	3048.9	3054.3	2108.4
75°	130.4	131.1	130.8	131.0	144.2	180.9	392.9	1388.3	2465.2	2454.3	1615.1
77.5°	114.5	115.3	113.7	114.0	127.6	139.1	195.5	971.9	1663.6	1586.8	910.0
80°	96.8	97.4	96.8	97.8	111.1	105.0	113.7	546.8	735.6	695.8	323.6
82.5°	73.1	75.8	77.6	82.0	91.5	74.7	76.1	213.0	224.0	213.3	99.2
85°	32.0	39.0	58.5	62.7	68.8	44.8	49.9	86.8	91.2	88.4	36.1
87.5°	8.4	9.2	28.9	36.4	38.1	20.2	26.0	39.5	41.7	39.5	12.0
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°	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4	418.4
2.5°	423.1	415.5	401.8	389.7	380.5	374.3	368.0	364.9	363.1	361.2	361.5
5°	436.6	421.2	397.8	381.1	371.8	365.9	362.8	361.5	360.7	358.9	358.9
7.5°	457.0	435.2	402.9	385.8	378.5	374.0	372.1	371.5	370.5	368.4	368.7
10°	482.7	452.2	413.6	397.0	390.3	385.3	382.7	381.7	380.0	377.5	377.8
12.5°	512.9	473.2	427.8	410.4	402.3	395.6	391.2	388.6	385.6	382.4	382.5
15°	545.8	496.1	443.0	422.3	411.3	402.0	395.0	390.4	385.8	381.7	381.6
17.5°	579.3	518.1	454.7	428.9	413.9	401.6	392.2	385.2	379.4	374.4	374.0
20°	615.4	538.1	461.2	428.2	409.0	394.3	381.7	373.0	366.6	361.7	360.9
22.5°	652.1	556.7	462.3	421.9	397.9	380.0	366.8	357.2	350.6	345.5	343.6
25°	685.7	571.2	457.8	409.6	382.5	363.2	350.3	340.5	335.2	329.2	327.3
27.5°	716.3	581.3	448.8	393.9	365.2	346.3	334.1	325.7	320.0	315.3	313.8
30°	743.9	586.7	434.0	375.2	347.5	330.2	320.0	314.2	309.2	303.3	302.2
32.5°	770.0	586.7	415.0	354.8	329.9	316.1	310.0	306.4	300.8	295.1	293.5
35°	796.1	583.2	392.6	333.5	313.8	306.0	305.7	301.5	292.9	285.1	283.1
37.5°	823.7	575.9	367.4	313.6	300.5	301.5	304.1	294.8	282.6	271.6	268.6
40°	854.8	565.7	341.3	296.3	289.5	299.4	299.9	285.1	261.5	251.4	248.7
42.5°	891.3	555.6	317.0	281.1	280.8	293.4	292.0	264.3	250.1	245.0	243.6
45°	939.4	549.9	294.0	266.6	273.9	283.6	278.4	252.8	246.9	243.9	242.7
47.5°	1015.1	552.8	272.8	255.1	267.1	273.8	253.2	248.1	243.9	240.3	239.1
50°	1110.0	551.1	255.7	247.2	259.3	263.5	241.9	242.0	239.9	235.8	234.0
52.5°	1181.4	537.7	244.7	242.7	252.5	245.3	234.7	236.1	235.0	229.1	227.1
55°	1250.3	526.2	239.1	241.0	247.5	222.6	226.3	229.8	228.7	222.9	222.0
57.5°	1336.1	524.1	235.7	241.4	243.3	211.2	218.2	222.8	222.0	219.5	219.0
60°	1441.1	524.7	232.6	242.2	238.6	202.8	210.6	216.4	216.8	216.4	216.1
62.5°	1498.8	507.7	224.8	240.0	230.4	195.5	202.7	211.1	211.2	212.2	212.0
65°	1449.8	457.0	210.3	232.4	216.5	189.5	195.8	205.0	202.7	206.9	206.9
66°	1402.2	427.8	203.2	227.4	210.6	187.1	193.7	201.9	199.0	204.7	204.7
67.5°	1304.9	378.5	190.2	216.8	202.2	183.9	191.2	196.8	192.7	201.3	200.7
70°	1127.3	292.8	164.3	192.9	188.4	179.0	187.8	186.5	180.6	193.7	191.2
72.5°	950.4	222.4	131.9	161.5	167.4	173.0	182.9	173.4	166.0	175.2	169.7
75°	737.5	167.2	104.2	125.5	141.4	163.5	177.2	158.4	147.6	146.7	143.7
77.5°	398.7	114.8	82.6	95.8	112.3	151.7	173.3	142.2	126.0	122.3	119.9
80°	157.9	74.7	60.0	72.6	78.6	134.6	164.0	123.4	103.9	100.2	96.6
82.5°	65.2	44.2	38.7	48.7	51.2	115.1	147.2	101.1	80.3	111.1	117.9
85°	28.0	24.3	23.0	25.2	28.9	80.7	117.1	77.2	86.6	77.3	61.4
87.5°	8.4	10.3	9.8	9.6	10.6	19.3	62.4	42.9	63.6	24.1	18.0
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)