

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: P382727

Luminaire Tested: **GLEON-SA1A-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4459.3 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

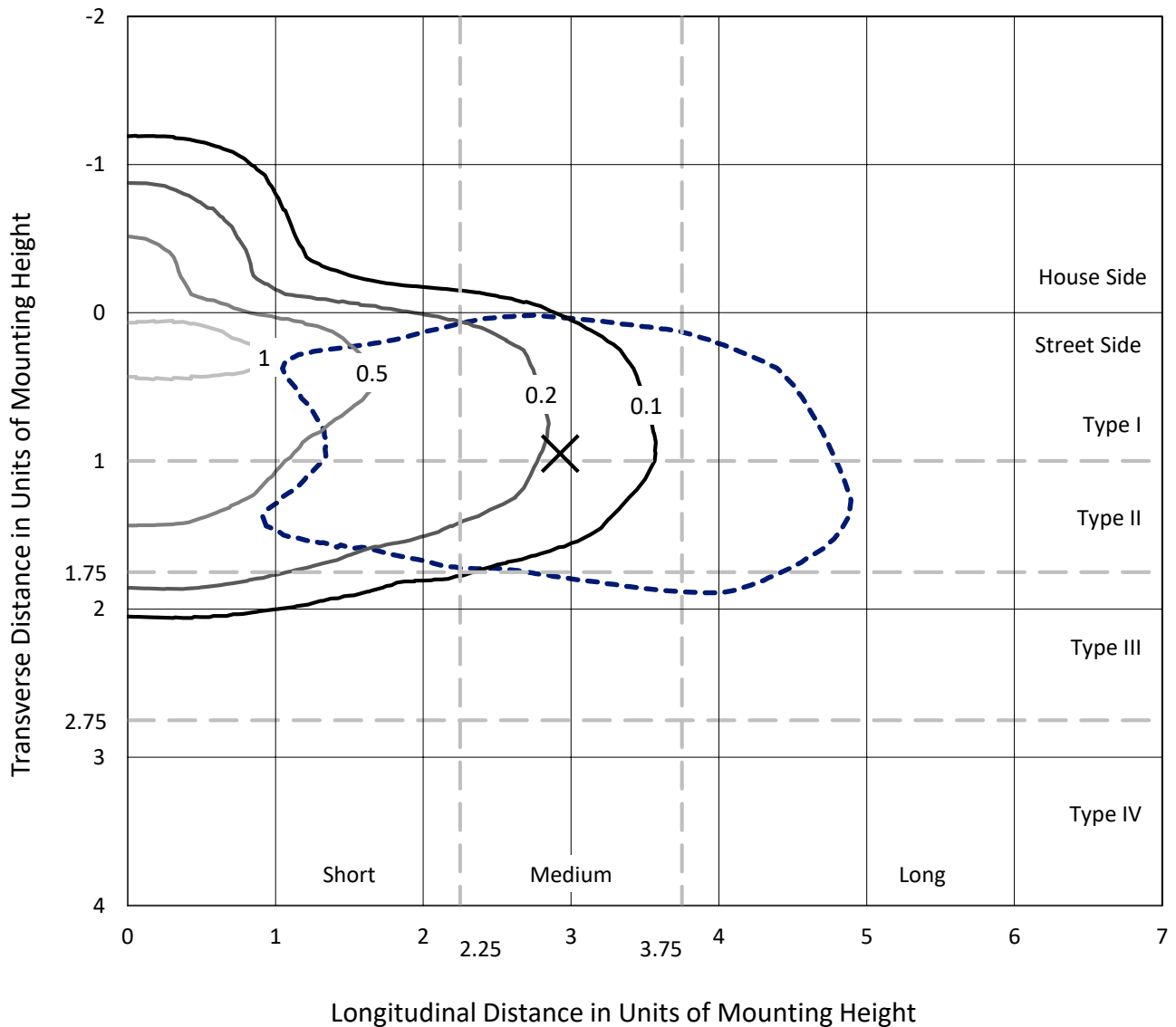
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

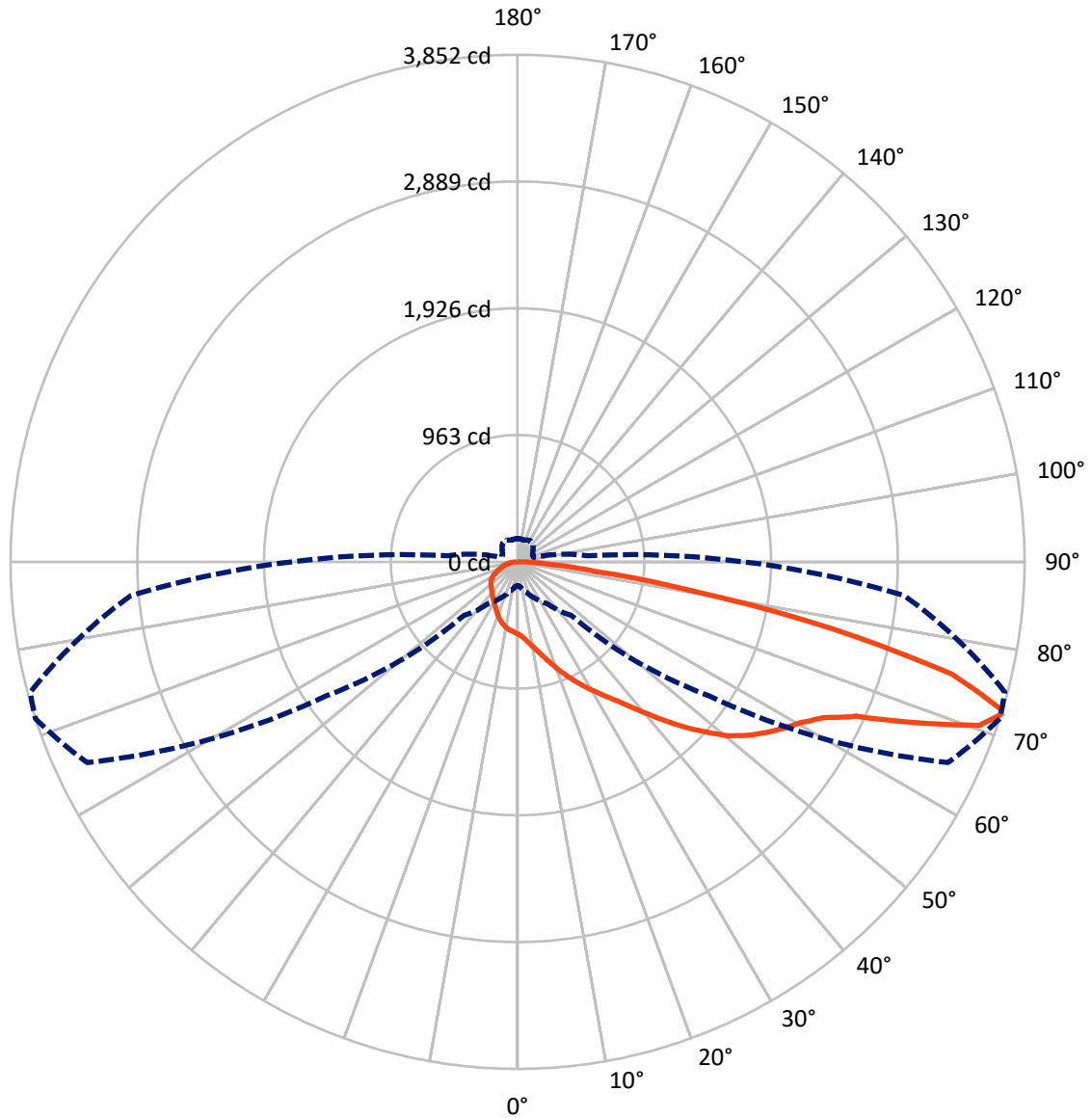
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	827.2	0.0	827.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3632.1	0.0	3632.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	4459.3	0.0	4459.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	1.2
10°-20°	177.6	4.0
20°-30°	311.3	7.0
30°-40°	461.5	10.4
40°-50°	675.0	15.1
50°-60°	928.9	20.8
60°-70°	1034.1	23.2
70°-80°	700.7	15.7
80°-90°	115.2	2.6
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°	4459.3	100.0
0°-180°	4459.3	100.0

Coefficient of Utilization

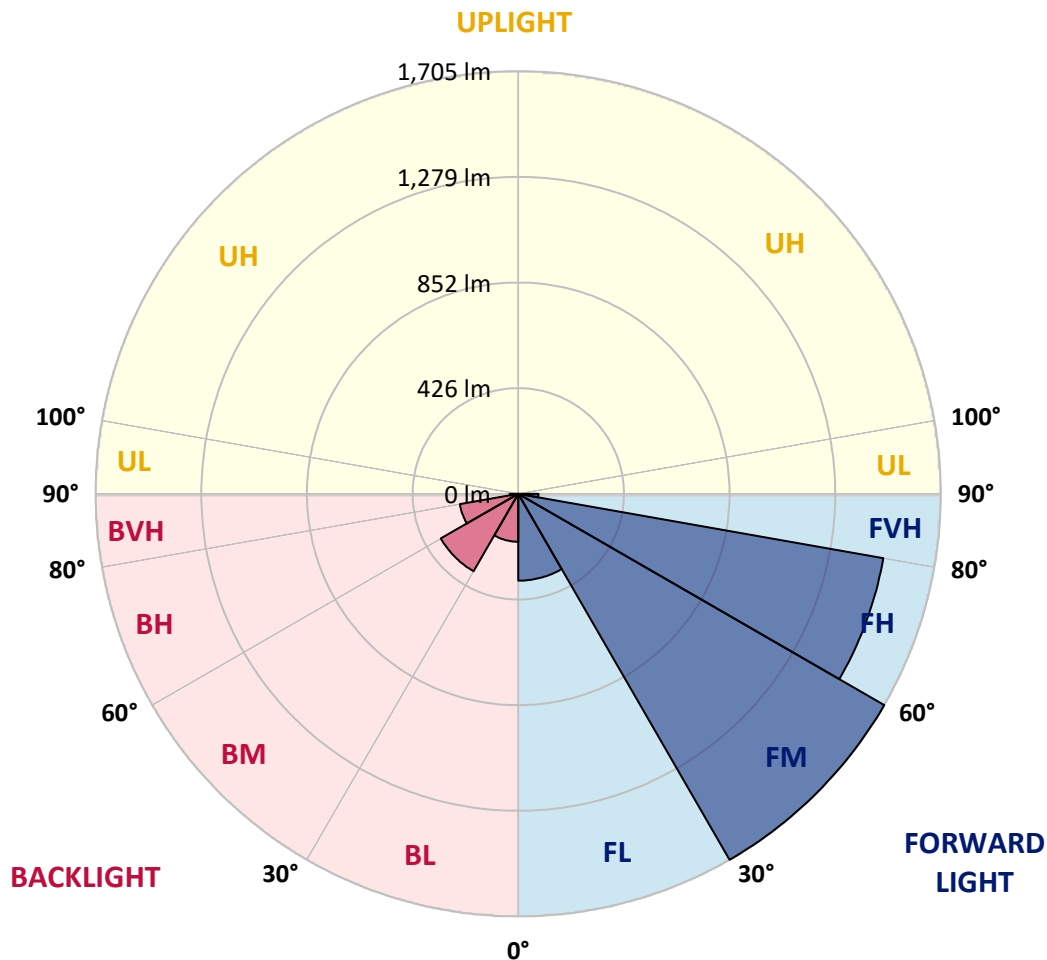


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.5	7.9			
FM (30°-60°)	1704.8	38.2			
FH (60°-80°)	1495.5	33.5			G1/1800
FVH (80°-90°)	81.2	1.8			G1/100
BL (0°-30°)	193.4	4.3	B1/500		
BM (30°-60°)	360.6	8.1	B1/1000		
BH (60°-80°)	239.3	5.4	B1/500		G1/500
BVH (80°-90°)	33.9	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	606.1	605.1	601.9	601.9	595.7	590.5	580.7	574.1	566.3	563.5	554.3
5°	664.7	665.0	661.0	658.2	649.2	638.1	621.4	606.2	591.0	584.8	566.0
7.5°	713.9	713.4	712.3	710.0	701.5	690.2	667.6	645.0	622.6	613.4	580.8
10°	745.6	747.0	747.9	749.0	745.4	737.3	716.0	688.5	659.2	646.6	598.7
12.5°	761.5	764.1	768.3	775.7	781.6	780.6	765.1	735.9	701.1	685.2	621.0
15°	770.9	774.2	780.9	794.1	810.5	819.9	815.8	789.4	750.5	731.0	648.1
17.5°	776.8	779.4	789.9	807.5	831.9	856.7	867.6	845.6	806.4	784.2	679.3
20°	780.7	782.8	795.8	816.5	848.2	887.8	918.2	912.6	868.0	839.1	711.8
22.5°	789.7	791.3	803.8	824.7	859.7	910.9	966.9	975.1	932.9	900.2	746.7
25°	814.5	814.5	825.0	839.6	872.4	930.8	1008.0	1044.7	999.3	961.2	779.0
27.5°	862.0	861.5	865.4	870.4	895.3	951.0	1044.7	1106.1	1068.0	1026.5	810.3
30°	918.2	921.3	921.8	919.3	930.9	976.4	1078.6	1171.0	1137.3	1092.4	842.3
32.5°	990.5	992.5	990.2	982.0	980.4	1012.3	1112.0	1238.8	1212.2	1161.4	871.6
35°	1082.4	1078.5	1071.3	1054.7	1038.9	1060.4	1150.1	1306.7	1296.3	1244.8	912.1
37.5°	1180.7	1180.9	1172.0	1134.3	1112.5	1121.8	1202.5	1383.6	1398.2	1343.9	963.8
40°	1259.6	1263.8	1269.3	1219.9	1191.6	1204.4	1269.3	1472.8	1518.5	1461.6	1031.2
42.5°	1314.8	1319.5	1335.2	1304.2	1274.9	1298.5	1347.9	1568.0	1653.7	1597.3	1110.1
45°	1373.1	1375.7	1386.8	1373.5	1354.7	1408.0	1436.5	1666.5	1796.6	1742.0	1198.4
47.5°	1434.6	1437.3	1448.6	1439.8	1429.9	1510.2	1528.9	1759.4	1933.6	1900.9	1292.7
50°	1510.4	1512.3	1523.0	1506.9	1509.9	1587.4	1611.6	1844.7	2077.2	2043.6	1387.3
52.5°	1613.9	1614.4	1629.3	1614.7	1600.2	1643.8	1682.7	1924.9	2189.7	2173.9	1481.8
55°	1695.0	1699.9	1748.7	1745.6	1737.3	1695.1	1742.1	2001.4	2290.1	2297.7	1582.2
57.5°	1643.2	1662.4	1761.3	1831.0	1898.9	1822.8	1822.4	2087.6	2383.5	2419.0	1692.6
60°	1439.1	1465.2	1611.0	1765.6	1978.0	2044.7	1989.1	2192.8	2477.7	2539.5	1831.0
62.5°	1027.9	1070.8	1268.3	1515.2	1869.5	2191.8	2328.5	2359.7	2605.9	2678.9	2010.8
65°	519.6	552.1	717.7	1015.1	1493.6	2095.7	2697.3	2725.1	2828.7	2893.6	2287.7
67.5°	315.7	328.0	408.8	564.6	915.7	1632.4	2817.7	3334.2	3259.9	3294.3	2682.4
70°	232.6	241.6	292.0	374.9	526.7	958.0	2448.3	3768.9	3720.0	3716.2	2974.2
72°	181.2	187.8	232.3	302.9	385.1	574.7	1774.5	3608.4	3851.8	3832.5	2947.4
72.5°	171.8	177.6	218.2	285.1	363.9	521.0	1595.5	3500.2	3842.3	3833.5	2912.9
75°	135.3	139.5	161.5	220.5	284.9	295.6	874.3	2712.5	3408.5	3550.2	2619.9
77.5°	112.0	112.5	124.2	160.4	222.0	208.9	429.4	1882.0	2440.7	2596.6	1855.9
80°	91.2	91.9	97.5	112.5	168.0	154.6	203.9	1082.2	1366.6	1368.3	882.5
82.5°	72.7	72.8	78.9	82.3	120.7	110.6	116.8	508.1	597.1	574.4	317.2
85°	51.1	50.0	77.0	67.5	78.9	70.9	64.5	201.1	246.9	236.1	99.3
87.5°	17.0	17.7	34.3	43.8	46.0	40.2	28.7	77.0	93.2	92.4	31.5
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°	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6	548.6
2.5°	551.4	546.4	539.3	531.3	524.9	518.5	513.7	511.3	508.5	506.2	509.0
5°	557.3	548.0	532.7	517.6	506.6	496.7	489.6	486.0	482.6	480.3	480.6
7.5°	566.8	551.8	526.0	504.1	488.7	478.2	470.9	468.5	466.3	465.7	466.4
10°	576.9	554.9	517.3	488.1	470.6	461.9	458.6	460.4	461.9	463.3	464.7
12.5°	588.4	557.7	504.5	469.4	454.5	451.1	454.3	461.7	467.1	470.3	472.3
15°	603.5	560.1	489.8	450.7	440.7	444.5	455.4	468.2	477.5	483.5	484.4
17.5°	617.2	560.0	470.9	431.8	429.4	440.7	457.1	475.1	487.7	496.1	497.8
20°	631.5	555.9	449.0	413.3	418.1	436.5	457.9	479.6	494.7	504.5	506.9
22.5°	644.9	548.6	424.9	396.6	408.6	431.0	455.0	477.0	492.1	500.1	502.6
25°	653.9	536.0	400.5	382.5	400.1	424.2	445.5	463.1	474.4	478.4	479.1
27.5°	658.5	519.6	377.4	370.2	391.3	413.1	427.8	436.5	439.8	439.4	438.9
30°	659.2	497.9	357.6	360.2	381.3	396.9	403.8	402.1	398.0	390.9	391.5
32.5°	657.2	473.5	341.0	350.7	368.3	377.1	377.4	369.3	358.2	347.0	343.9
35°	657.8	449.6	326.4	339.9	352.7	356.5	353.0	341.0	325.9	311.5	308.4
37.5°	664.6	428.7	313.8	327.5	335.4	336.3	331.2	318.6	307.5	293.4	292.2
40°	680.7	413.8	301.8	313.6	318.0	318.5	311.2	302.3	303.2	295.8	295.6
42.5°	709.7	407.4	291.3	298.9	301.7	302.7	297.1	291.4	299.4	294.5	292.8
45°	747.1	408.9	282.4	284.7	289.7	294.0	290.6	283.7	286.8	265.5	258.4
47.5°	790.4	418.7	275.3	272.4	281.1	289.2	284.0	273.6	262.7	241.6	237.5
50°	841.1	433.9	268.8	260.3	271.7	282.8	277.6	262.7	246.3	236.0	234.7
52.5°	893.9	452.5	262.4	246.9	260.0	277.9	275.3	260.3	240.0	229.8	228.0
55°	953.8	471.3	254.3	231.4	247.2	275.6	274.2	251.3	235.2	229.5	228.1
57.5°	1028.2	492.6	243.5	215.3	235.2	267.4	263.0	246.0	230.3	226.0	225.5
60°	1125.3	524.1	228.0	198.0	220.7	254.6	253.7	238.1	222.5	219.4	218.8
62.5°	1270.9	576.1	206.7	180.9	204.4	232.9	241.4	227.6	214.2	214.1	214.3
65°	1496.6	654.4	183.5	165.8	187.9	214.6	227.1	216.7	205.8	208.9	209.3
67.5°	1758.2	719.3	160.8	151.1	171.2	197.3	214.2	205.8	194.5	202.5	202.7
70°	1845.3	661.3	140.8	136.5	153.9	180.5	200.2	193.8	182.4	190.4	189.7
72°	1717.2	533.9	127.9	125.5	140.8	166.7	187.8	182.6	171.3	176.7	174.8
72.5°	1676.9	509.0	124.6	122.7	137.3	163.2	184.5	179.8	168.6	173.2	171.3
75°	1495.8	442.0	107.1	107.6	119.8	146.1	166.5	164.9	153.4	153.9	153.2
77.5°	1085.0	324.1	90.3	93.3	101.9	128.4	148.2	147.3	134.7	132.4	131.9
80°	503.5	165.3	73.6	74.9	83.8	107.3	126.4	125.1	115.0	112.1	110.4
82.5°	172.4	78.6	55.2	56.2	64.9	86.4	109.6	108.9	100.4	94.7	91.2
85°	61.6	39.1	38.7	37.7	46.4	68.0	95.5	91.4	78.9	67.3	67.0
87.5°	19.9	16.8	19.9	19.8	27.0	46.0	69.4	59.2	57.3	47.6	46.7
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)