

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: P382761

Luminaire Tested: **GLEON-SA1B-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5698.3 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

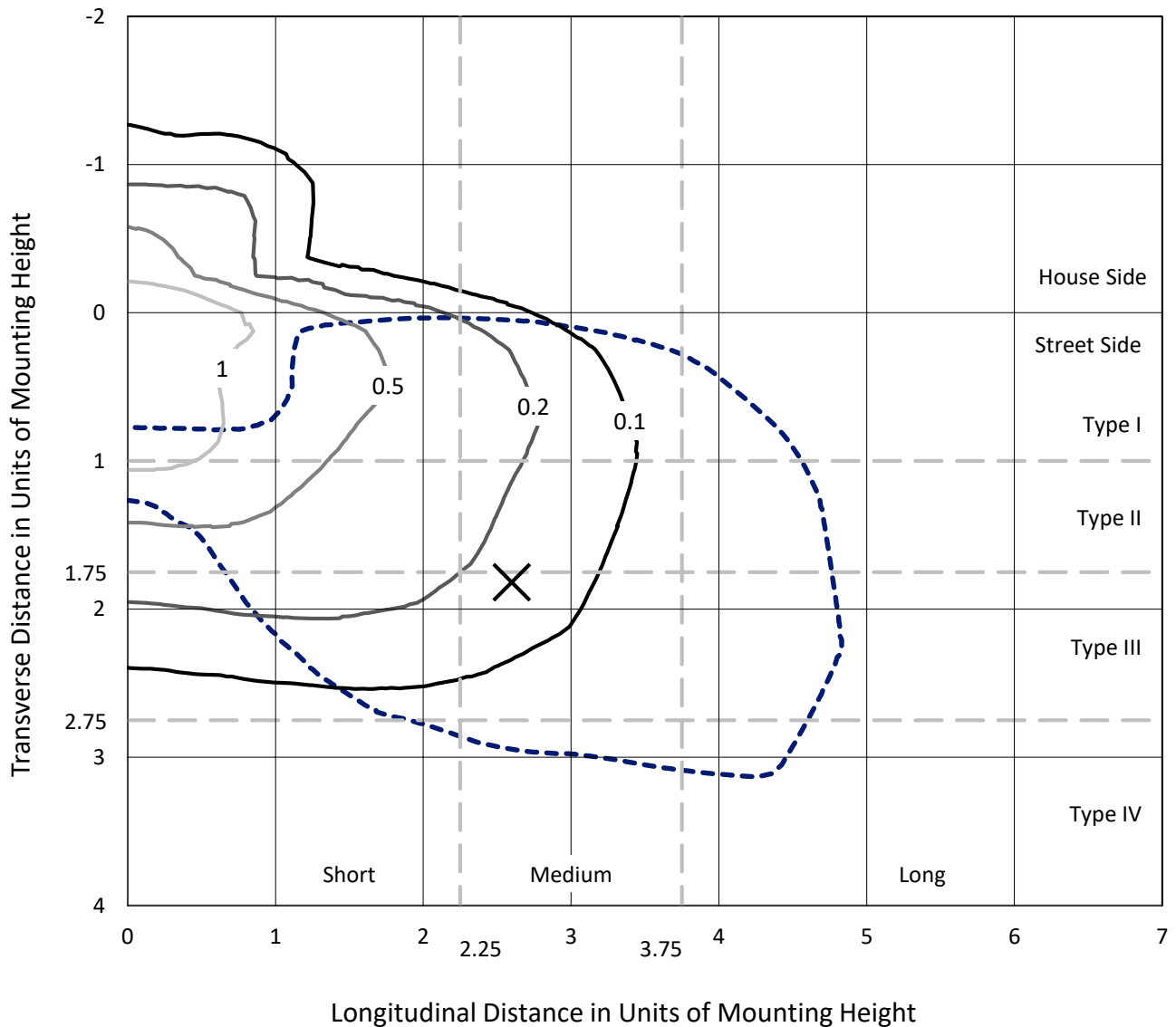
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

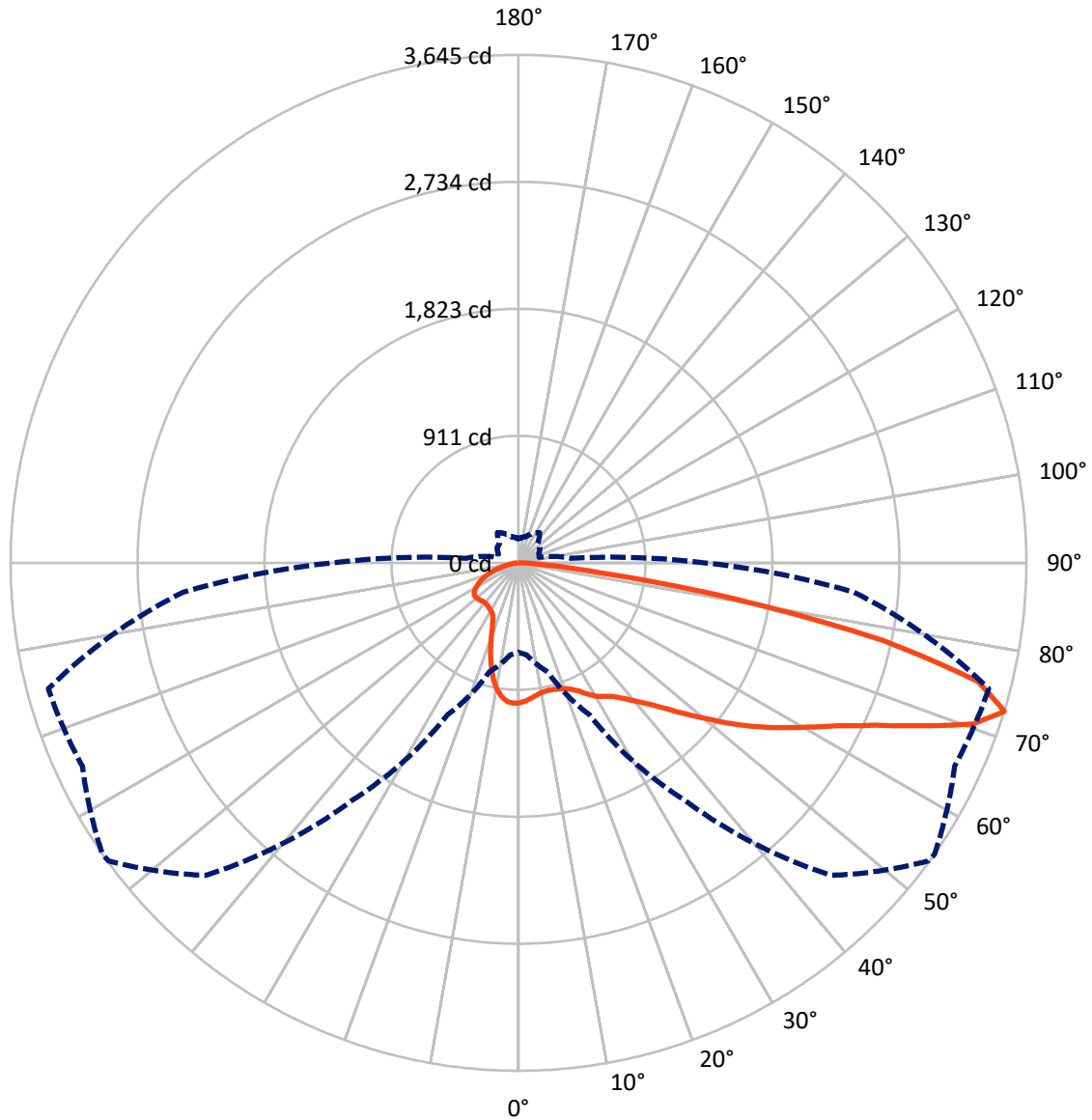
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.1	0.0	1059.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4639.1	0.0	4639.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	5698.3	0.0	5698.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.6
10°-20°	242.1	4.2
20°-30°	399.2	7.0
30°-40°	590.5	10.4
40°-50°	824.3	14.5
50°-60°	1073.2	18.8
60°-70°	1318.9	23.1
70°-80°	1033.9	18.1
80°-90°	125.1	2.2
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°	5698.3	100.0
0°-180°	5698.3	100.0

Coefficient of Utilization

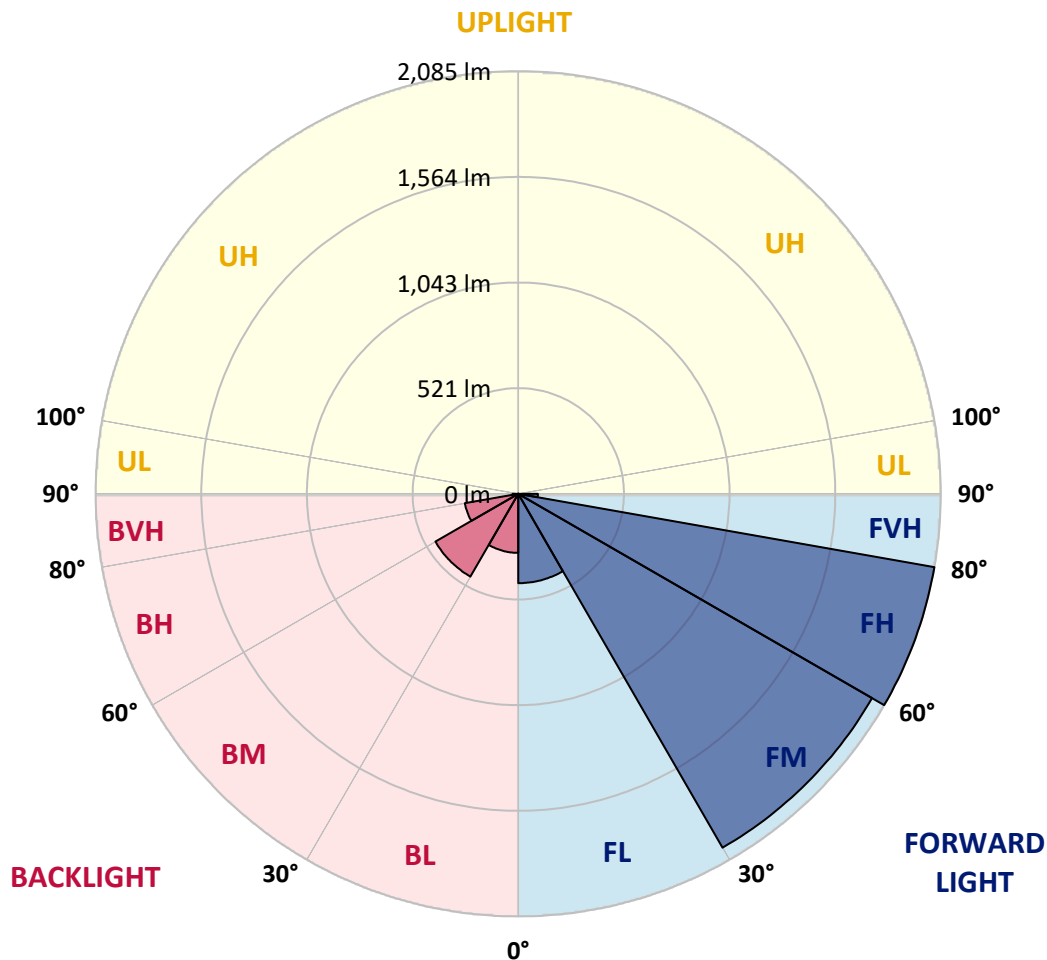


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.9	7.7			
FM (30°-60°)	2016.2	35.4			
FH (60°-80°)	2085.4	36.6			G2/5000
FVH (80°-90°)	96.7	1.7			G1/100
BL (0°-30°)	291.4	5.1	B1/500		
BM (30°-60°)	471.9	8.3	B1/1000		
BH (60°-80°)	267.5	4.7	B1/500		G1/500
BVH (80°-90°)	28.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0
2.5°	972.3	970.0	972.9	976.9	981.4	987.3	990.8	992.4	998.3	1000.7	1005.6
5°	927.3	926.1	931.0	937.9	947.7	961.5	972.7	974.9	990.6	1001.8	1011.9
7.5°	894.6	894.6	900.2	908.4	919.4	938.1	953.8	956.7	983.5	1007.6	1026.4
10°	868.6	869.6	876.1	885.9	898.9	918.6	939.7	942.9	981.6	1021.1	1051.1
12.5°	851.2	853.6	859.5	868.4	884.4	908.4	935.0	939.5	985.6	1040.3	1080.7
15°	862.2	866.1	866.7	870.3	879.2	905.4	937.7	942.4	994.2	1059.9	1114.4
17.5°	910.4	911.7	905.7	898.0	893.8	910.6	945.8	950.6	1004.7	1079.4	1146.7
20°	983.5	982.7	969.8	949.1	927.4	930.2	959.0	964.1	1018.7	1096.4	1179.1
22.5°	1075.8	1073.1	1053.4	1015.1	978.3	962.9	982.3	986.6	1039.9	1120.9	1213.7
25°	1187.9	1181.9	1155.8	1104.3	1050.3	1010.6	1017.3	1021.4	1070.7	1148.2	1245.5
27.5°	1306.0	1300.1	1266.8	1204.7	1132.7	1070.9	1065.7	1069.1	1105.7	1168.4	1269.0
30°	1429.6	1423.3	1392.8	1323.2	1220.0	1133.2	1110.7	1112.1	1130.3	1179.4	1288.1
32.5°	1553.7	1547.8	1513.8	1432.9	1314.9	1200.2	1143.3	1141.5	1145.2	1190.8	1309.9
35°	1679.7	1681.9	1642.1	1552.6	1420.1	1274.7	1181.8	1178.0	1170.0	1214.1	1340.7
37.5°	1814.4	1812.8	1761.3	1667.7	1529.9	1355.5	1237.0	1236.4	1208.5	1258.1	1389.0
40°	1904.5	1905.4	1874.0	1785.5	1640.9	1445.0	1307.8	1306.5	1269.9	1324.2	1452.4
42.5°	1939.7	1946.0	1954.1	1897.9	1757.2	1548.8	1392.3	1390.3	1355.5	1418.8	1526.8
45°	1942.2	1954.9	2004.9	1997.8	1875.0	1667.6	1500.3	1494.9	1469.9	1544.7	1615.8
47.5°	1920.6	1933.7	2016.8	2057.2	1980.3	1792.9	1626.5	1622.3	1600.8	1702.1	1712.0
50°	1873.4	1886.0	1992.2	2086.3	2066.9	1913.3	1772.0	1760.9	1749.4	1884.1	1822.1
52.5°	1785.1	1809.2	1959.3	2093.3	2118.6	2020.3	1925.0	1917.7	1924.1	2076.0	1932.3
55°	1575.9	1602.8	1874.5	2087.5	2157.0	2110.2	2078.0	2077.6	2110.6	2277.3	2050.7
57.5°	1458.7	1477.7	1701.6	2077.6	2202.4	2199.5	2229.5	2233.2	2297.3	2496.5	2174.7
60°	1392.5	1412.5	1614.0	2041.3	2272.8	2315.0	2384.1	2391.4	2487.0	2739.1	2323.8
62.5°	1332.2	1354.2	1559.8	1967.1	2355.8	2480.2	2569.2	2575.7	2688.0	2988.6	2467.9
65°	1229.3	1254.1	1480.2	1918.5	2431.2	2695.4	2804.6	2809.0	2918.7	3250.0	2578.2
67.5°	1083.8	1106.5	1330.3	1810.9	2487.0	2957.0	3117.5	3120.0	3147.6	3434.5	2634.7
70°	913.8	922.5	1116.6	1588.8	2421.0	3201.6	3460.5	3461.1	3356.2	3552.7	2625.4
72.5°	642.0	662.4	810.6	1202.7	2080.5	3171.8	3638.5	3645.1	3453.2	3493.0	2415.6
75°	393.8	415.4	508.5	728.8	1319.9	2494.5	3361.8	3407.2	3271.3	3114.4	1973.4
77.5°	263.3	271.4	331.8	425.0	598.0	1435.2	2584.6	2670.1	2717.6	2271.3	1262.0
80°	146.8	162.3	220.0	264.1	266.0	570.3	1549.7	1569.8	1512.0	904.4	389.4
82.5°	77.8	86.3	146.8	155.1	145.1	191.0	577.6	578.2	483.1	242.5	115.7
85°	60.3	67.4	100.7	94.7	74.1	84.7	190.5	200.9	164.3	99.3	37.7
87.5°	30.0	37.4	68.3	60.1	29.1	24.2	68.1	72.8	64.8	38.8	13.7
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°	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0
2.5°	1007.6	1009.3	1011.4	1009.1	1008.3	1005.2	1000.0	998.9	996.2	996.4	998.0
5°	1016.4	1019.3	1018.2	1009.3	998.7	983.9	968.5	955.4	946.7	946.2	945.6
7.5°	1033.4	1035.2	1026.2	1001.0	971.4	937.1	904.8	876.5	859.4	855.2	854.1
10°	1059.9	1059.5	1034.7	983.9	924.8	863.6	811.7	772.3	749.4	742.7	741.0
12.5°	1089.5	1085.2	1037.6	952.7	859.0	774.1	708.3	664.6	640.7	633.0	631.1
15°	1120.2	1109.2	1030.5	906.1	778.1	677.7	608.6	568.2	555.3	551.0	550.3
17.5°	1148.6	1127.5	1010.1	843.0	686.0	581.7	527.7	511.6	514.7	520.3	520.5
20°	1176.5	1139.7	977.4	763.3	588.7	502.6	484.2	496.1	510.8	522.1	523.7
22.5°	1204.0	1148.4	935.2	671.3	501.7	458.0	471.0	492.7	509.5	521.8	523.9
25°	1227.1	1150.6	877.1	573.2	441.4	441.4	464.7	485.2	501.7	513.8	516.0
27.5°	1235.6	1136.3	795.1	482.4	410.9	433.6	455.7	472.9	486.9	499.9	502.1
30°	1238.9	1109.9	700.3	409.4	398.4	425.3	443.8	458.4	471.7	483.8	486.0
32.5°	1239.5	1078.2	599.9	368.0	389.8	416.7	429.0	441.9	456.2	460.9	461.8
35°	1243.2	1040.6	494.1	346.8	381.7	408.6	418.5	427.7	404.6	406.2	407.8
37.5°	1253.7	1003.6	405.5	334.9	376.4	404.4	416.1	382.6	364.5	360.3	359.8
40°	1273.5	963.9	339.9	325.3	374.6	406.5	401.3	357.2	326.0	302.8	299.3
42.5°	1301.1	921.1	297.9	318.9	375.9	416.7	380.7	332.7	281.0	266.0	264.1
45°	1332.0	876.3	275.2	314.5	380.5	424.6	376.4	300.2	260.0	248.6	247.7
47.5°	1362.1	821.4	263.4	312.5	386.9	418.3	358.6	290.3	250.0	244.1	244.6
50°	1396.5	772.0	256.4	310.5	392.5	414.2	338.3	285.1	246.2	253.5	261.2
52.5°	1425.5	720.7	250.0	306.2	394.5	407.1	333.1	286.0	246.2	260.2	267.5
55°	1460.0	682.1	242.7	297.3	390.5	386.9	329.5	291.8	249.1	240.2	241.0
57.5°	1504.5	669.4	234.7	283.5	377.0	357.4	327.8	297.3	247.3	241.7	243.7
60°	1566.1	682.8	231.3	265.4	356.0	334.3	328.0	294.5	235.2	225.5	225.8
62.5°	1624.8	697.9	231.1	254.0	330.2	313.7	323.5	285.1	229.1	223.5	225.5
65°	1644.0	682.6	221.9	241.4	301.2	289.1	315.4	275.0	224.4	215.9	215.6
67.5°	1618.3	635.5	203.3	220.8	267.9	260.4	304.9	263.1	217.1	210.2	209.0
70°	1541.6	530.2	180.2	193.6	230.0	228.0	288.1	249.3	207.3	201.3	196.3
72.5°	1335.6	377.8	151.8	161.1	187.2	193.4	265.0	231.1	193.4	180.5	172.8
75°	1096.9	279.7	124.7	126.6	142.2	159.0	233.3	210.0	177.1	155.1	149.1
77.5°	671.7	171.1	99.3	100.0	102.0	126.9	192.1	186.3	156.3	129.3	125.1
80°	217.5	93.3	71.8	75.5	69.7	93.0	148.6	158.5	134.1	108.2	103.6
82.5°	82.7	54.5	48.5	51.0	48.3	62.3	108.3	127.1	109.9	89.0	72.4
85°	40.1	30.8	28.7	32.1	29.8	32.0	69.3	93.5	83.4	57.9	53.9
87.5°	14.3	13.7	11.0	14.8	12.7	11.4	21.1	47.1	55.1	39.9	35.6
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)