

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: P382747

Luminaire Tested: **GLEON-SA1B-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382747  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
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-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5575.3 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

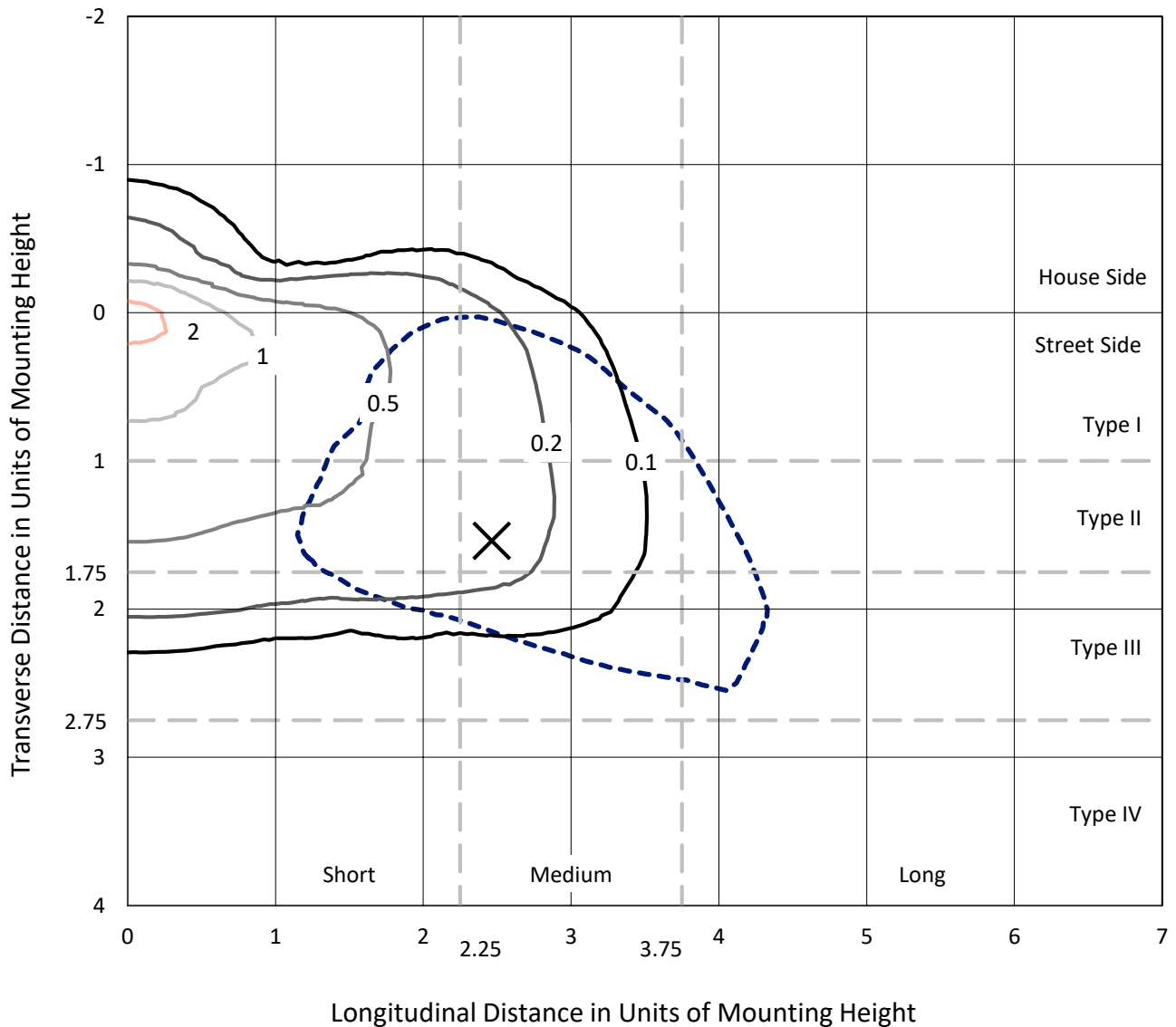
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

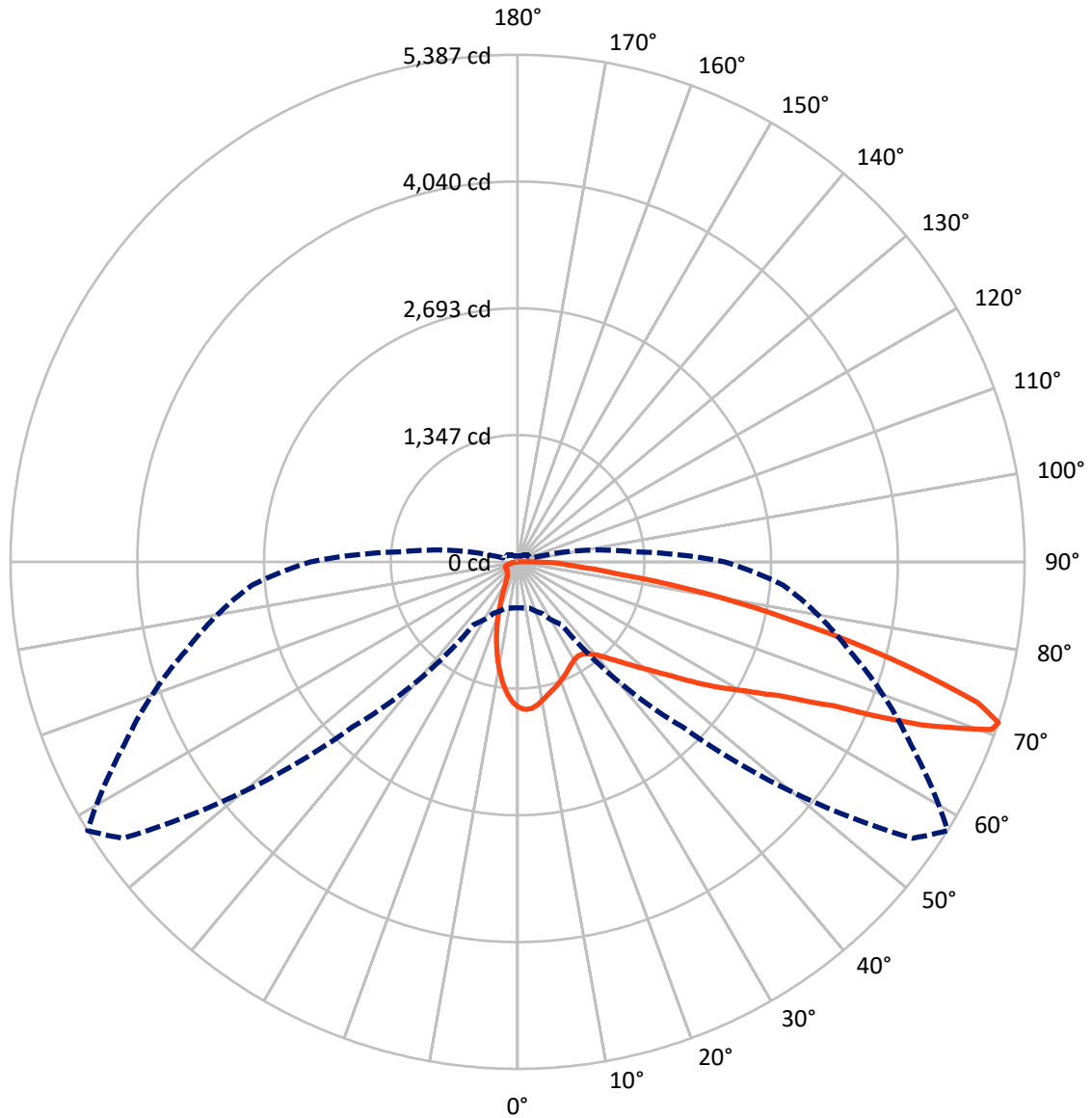
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	833.6	0.0	833.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	4741.8	0.0	4741.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	5575.3	0.0	5575.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	2.4
10°-20°	296.3	5.3
20°-30°	376.6	6.8
30°-40°	479.7	8.6
40°-50°	680.3	12.2
50°-60°	1052.7	18.9
60°-70°	1433.2	25.7
70°-80°	956.1	17.1
80°-90°	167.2	3.0
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°	5575.3	100.0
0°-180°	5575.3	100.0

**Coefficient of Utilization**

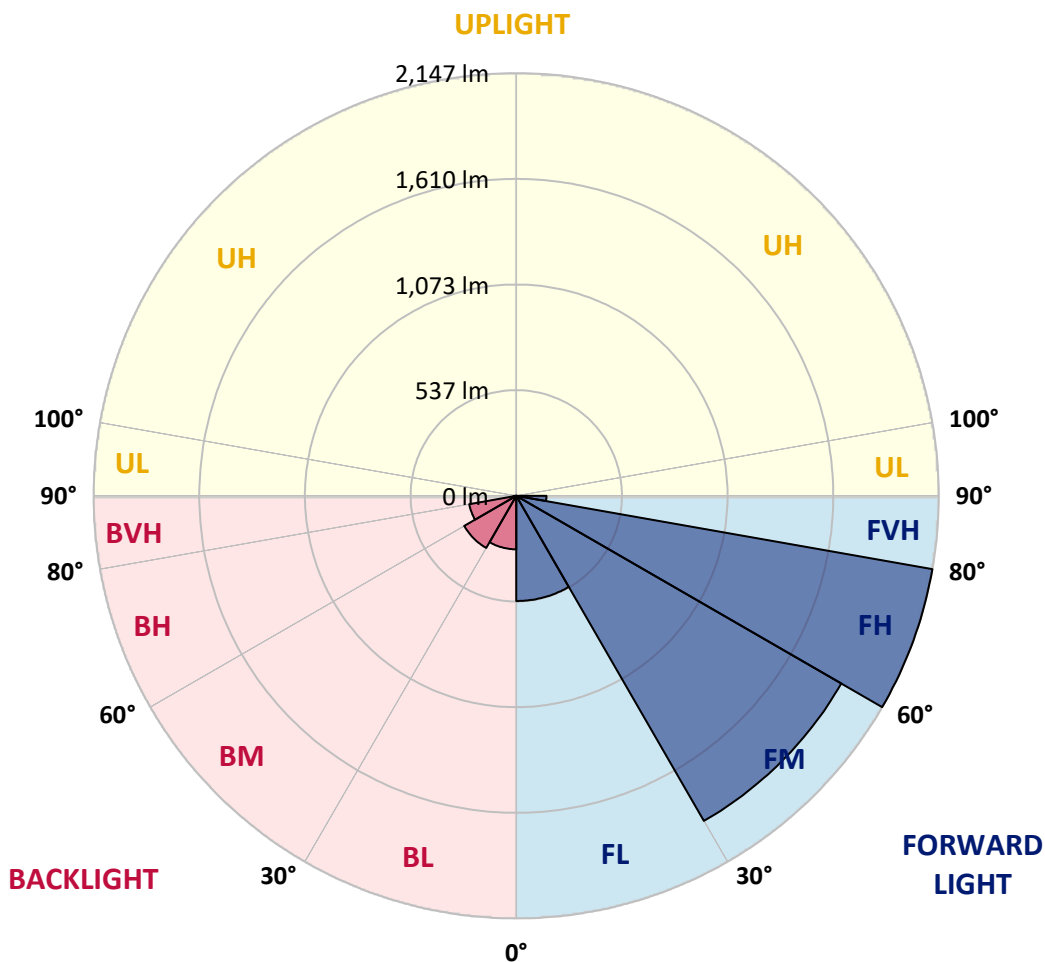


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.5	9.6			
FM (30°-60°)	1907.0	34.2			
FH (60°-80°)	2147.0	38.5			G2/5000
FVH (80°-90°)	153.3	2.7			G2/225
BL (0°-30°)	271.7	4.9	B1/500		
BM (30°-60°)	305.7	5.5	B1/1000		
BH (60°-80°)	242.3	4.3	B1/500		G1/500
BVH (80°-90°)	13.9	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7
2.5°	1585.7	1583.5	1584.4	1582.8	1579.1	1575.4	1569.9	1571.0	1563.4	1552.1	1538.2
5°	1555.8	1555.0	1560.8	1564.2	1566.9	1564.7	1563.2	1565.1	1554.1	1538.5	1514.2
7.5°	1493.1	1484.5	1491.9	1503.0	1513.5	1521.4	1531.9	1533.2	1526.2	1509.9	1478.1
10°	1403.9	1395.7	1406.6	1424.0	1444.9	1463.9	1485.1	1489.0	1490.4	1475.6	1436.9
12.5°	1311.5	1305.3	1316.2	1340.4	1375.2	1404.5	1438.3	1444.2	1456.2	1446.2	1398.9
15°	1228.7	1226.4	1239.6	1263.6	1303.5	1348.4	1397.1	1407.8	1428.2	1424.9	1369.2
17.5°	1157.3	1156.7	1166.8	1191.8	1236.2	1292.8	1356.1	1374.2	1404.5	1408.4	1344.7
20°	1104.1	1103.0	1109.9	1128.4	1174.0	1238.3	1311.9	1336.8	1380.5	1394.1	1319.4
22.5°	1075.6	1075.4	1075.6	1084.2	1121.6	1181.4	1268.8	1299.0	1356.9	1382.6	1291.5
25°	1070.6	1070.1	1065.8	1064.9	1086.0	1133.8	1226.0	1259.5	1334.6	1374.6	1264.9
27.5°	1083.3	1084.0	1078.5	1069.3	1073.6	1102.5	1188.9	1224.7	1316.7	1373.0	1246.4
30°	1109.5	1109.1	1104.3	1094.8	1086.4	1090.8	1162.6	1198.2	1304.7	1379.8	1233.8
32.5°	1138.4	1140.6	1139.7	1134.3	1122.0	1104.1	1154.6	1189.5	1301.2	1396.2	1228.3
35°	1173.2	1175.5	1182.5	1186.6	1172.1	1143.3	1171.7	1202.0	1311.3	1426.9	1237.1
37.5°	1206.3	1212.2	1231.9	1249.1	1236.7	1204.7	1217.1	1238.7	1342.5	1475.2	1260.6
40°	1244.3	1249.6	1281.6	1318.3	1316.4	1283.1	1290.3	1304.7	1397.7	1544.5	1303.1
42.5°	1281.8	1292.2	1338.6	1390.7	1405.7	1376.4	1387.8	1395.4	1475.4	1636.4	1377.3
45°	1331.6	1342.9	1407.5	1470.2	1505.1	1488.6	1506.9	1509.8	1573.1	1761.5	1485.1
47.5°	1407.2	1420.1	1495.2	1561.1	1614.5	1616.2	1646.3	1645.1	1695.0	1904.6	1620.9
50°	1524.9	1543.4	1605.0	1666.5	1731.4	1767.5	1807.7	1802.1	1841.3	2057.0	1777.2
52.5°	1679.1	1687.7	1733.3	1778.8	1859.4	1940.3	1998.0	1993.0	2007.1	2213.8	1954.7
55°	1839.0	1845.4	1864.2	1889.1	1997.4	2129.5	2251.5	2243.5	2207.6	2376.6	2130.1
57.5°	1982.7	1995.7	2008.7	2019.0	2136.5	2327.2	2510.7	2511.3	2425.1	2552.1	2311.3
60°	2005.0	2016.4	2102.5	2183.6	2374.4	2590.9	2788.2	2782.4	2650.2	2742.6	2513.2
62.5°	1772.4	1798.2	1941.9	2157.8	2603.6	3073.4	3142.3	3135.1	2919.4	2977.4	2748.4
65°	1270.2	1299.4	1472.9	1797.4	2492.4	3604.9	3781.2	3684.6	3286.4	3266.2	3023.8
67.5°	732.8	739.7	814.9	1075.6	1897.8	3632.7	4756.0	4620.6	3856.4	3593.8	3158.6
70°	541.9	541.6	559.5	661.9	1026.9	2964.7	5219.6	5340.9	4456.5	3701.6	2968.1
71°	490.0	490.6	510.6	602.4	813.3	2481.5	5121.1	5386.8	4614.6	3648.4	2830.2
72.5°	419.1	421.1	448.8	540.3	684.2	1711.3	4697.0	5111.8	4689.6	3517.2	2614.4
75°	317.9	322.4	360.9	455.4	625.3	867.9	3447.2	4081.9	4166.0	3103.5	1942.6
77.5°	226.8	231.9	275.4	383.0	594.5	654.1	2308.6	2977.4	3065.8	1988.9	876.3
80°	143.4	149.3	182.2	304.7	558.6	621.1	1450.7	2001.3	1671.8	636.4	222.9
82.5°	84.1	88.8	113.0	199.1	456.2	598.1	853.6	1109.3	650.6	192.3	101.4
85°	48.7	50.9	70.5	126.8	331.4	564.5	627.1	620.1	282.4	94.0	48.0
87.5°	22.7	25.2	41.7	66.2	183.9	409.2	495.6	428.2	175.6	44.1	22.5
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°	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7	1544.7
2.5°	1531.4	1528.0	1514.2	1502.0	1489.2	1472.5	1454.1	1451.7	1440.5	1442.6	1438.7
5°	1501.0	1492.7	1459.5	1429.4	1393.9	1362.0	1327.5	1311.5	1288.6	1287.0	1281.2
7.5°	1457.7	1442.2	1390.7	1333.6	1276.5	1222.2	1168.3	1133.0	1096.9	1081.5	1080.2
10°	1409.0	1382.6	1306.9	1222.4	1140.0	1060.6	983.6	926.8	875.5	851.2	850.2
12.5°	1362.8	1323.7	1219.9	1104.8	992.2	889.3	783.8	709.1	644.8	623.2	614.1
15°	1323.5	1268.6	1135.2	988.1	851.4	708.4	588.5	509.8	450.4	429.8	425.9
17.5°	1285.4	1214.7	1048.4	870.3	705.0	547.8	427.7	369.2	337.5	329.2	329.0
20°	1247.6	1159.4	957.6	749.6	563.4	409.8	328.8	302.6	291.9	290.9	289.3
22.5°	1204.7	1100.8	862.2	628.6	439.7	322.2	279.5	268.9	267.6	271.1	271.1
25°	1164.4	1042.5	765.5	510.2	342.0	268.8	249.6	247.4	251.1	257.3	257.9
27.5°	1127.0	986.4	671.2	404.9	274.1	236.7	228.8	231.3	237.9	245.1	245.3
30°	1096.2	933.4	579.5	319.1	231.5	212.9	211.5	216.6	223.8	229.3	230.7
32.5°	1072.2	888.1	490.9	256.5	203.7	195.0	196.2	200.5	204.8	208.0	210.2
35°	1061.1	849.3	409.2	216.3	186.0	181.2	182.8	185.1	187.1	189.4	191.1
37.5°	1063.1	819.2	336.2	191.3	174.2	171.7	171.7	171.7	171.7	172.8	173.1
40°	1081.2	801.9	276.8	175.4	166.3	163.5	161.3	159.5	157.9	158.6	158.3
42.5°	1127.4	800.3	233.3	165.3	159.9	155.4	151.1	148.4	146.4	147.2	147.6
45°	1205.8	819.8	203.9	158.1	153.8	147.0	141.6	138.7	137.3	139.8	140.2
47.5°	1307.4	862.1	186.0	152.9	148.2	139.3	133.4	130.7	131.1	134.8	135.7
50°	1438.3	930.8	177.6	149.5	144.3	132.7	126.6	124.3	125.5	130.7	131.9
52.5°	1582.0	1029.9	178.5	148.6	141.8	127.8	121.4	118.7	120.6	125.5	126.4
55°	1747.9	1149.0	194.6	149.9	138.1	124.6	117.1	112.4	114.0	118.5	119.2
57.5°	1932.2	1285.3	227.0	149.5	133.4	121.8	112.6	105.6	106.8	109.5	110.3
60°	2124.0	1450.0	277.3	150.7	131.3	118.3	106.7	97.9	97.5	99.9	100.2
62.5°	2354.4	1640.5	334.8	151.5	132.7	113.8	98.7	90.1	89.0	89.5	89.9
65°	2591.8	1778.3	313.3	148.4	136.9	110.1	91.7	82.5	80.4	80.0	80.2
67.5°	2599.1	1630.6	219.7	142.2	138.7	108.2	86.4	76.1	72.7	71.3	71.1
70°	2330.9	1324.7	171.1	135.5	131.6	105.1	81.6	70.9	65.7	63.5	63.3
71°	2200.0	1219.4	162.2	132.3	126.4	102.0	79.5	68.6	63.2	60.8	60.4
72.5°	1994.7	1093.2	151.3	127.0	116.4	94.0	75.4	65.2	59.6	56.9	56.4
75°	1431.5	714.9	130.0	113.2	96.3	75.0	66.0	58.7	53.8	50.5	50.1
77.5°	551.6	284.5	98.3	94.2	73.8	58.7	54.4	50.7	47.2	43.9	43.7
80°	170.5	127.2	71.6	70.9	53.4	43.7	42.3	41.4	40.0	36.5	35.8
82.5°	91.1	73.0	49.4	45.8	34.9	29.2	30.6	31.1	31.3	27.6	27.2
85°	43.5	38.7	27.8	26.0	20.4	16.3	18.8	20.4	20.6	16.9	15.7
87.5°	20.8	20.2	13.0	9.9	7.5	5.4	6.6	8.2	8.9	6.4	5.6
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)