

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: P382772

Luminaire Tested: **GLEON-SA1C-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382772  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1C-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5713.2 lumens  
Efficiency: N/A  
Efficacy: 96.8 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

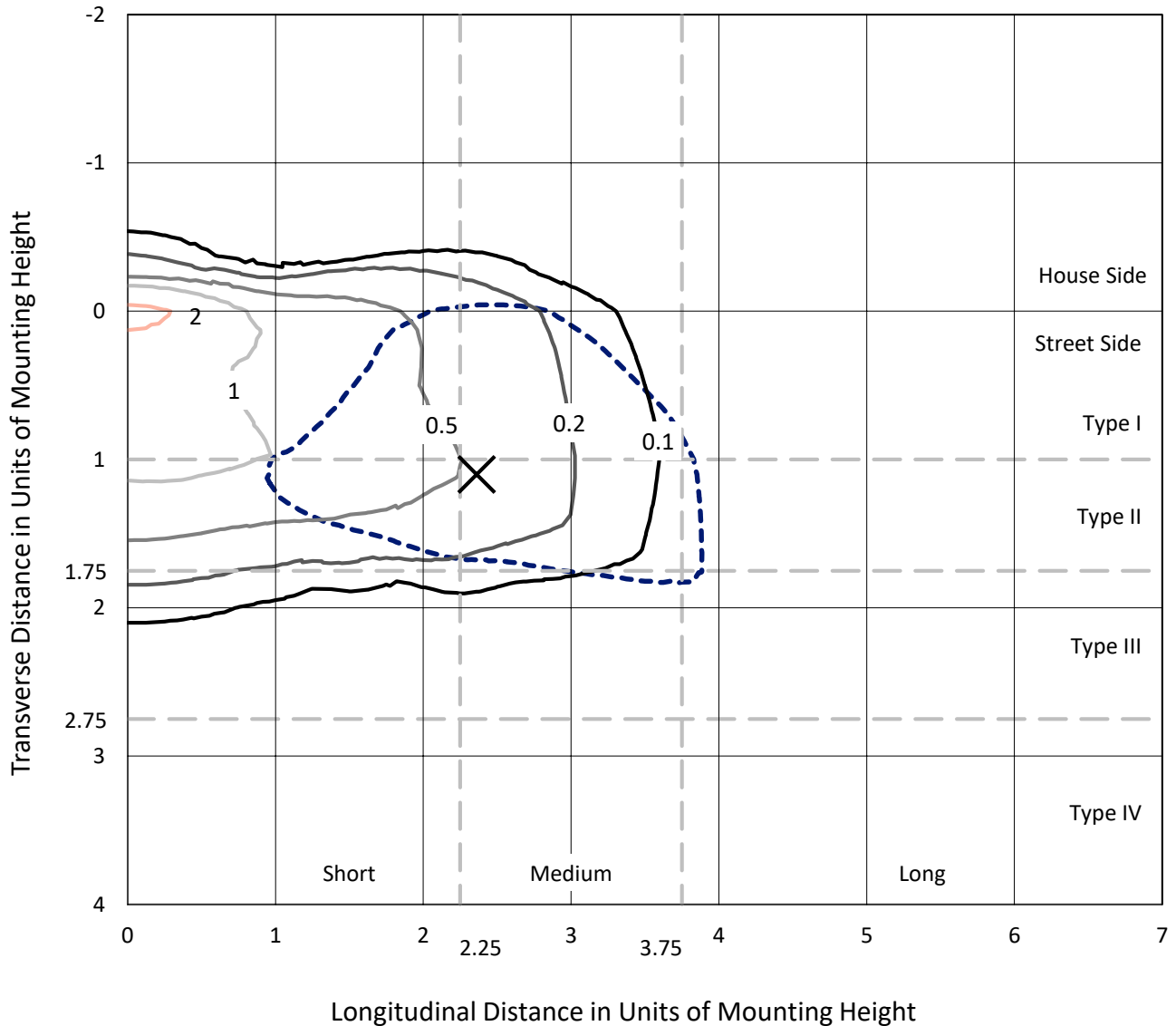
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

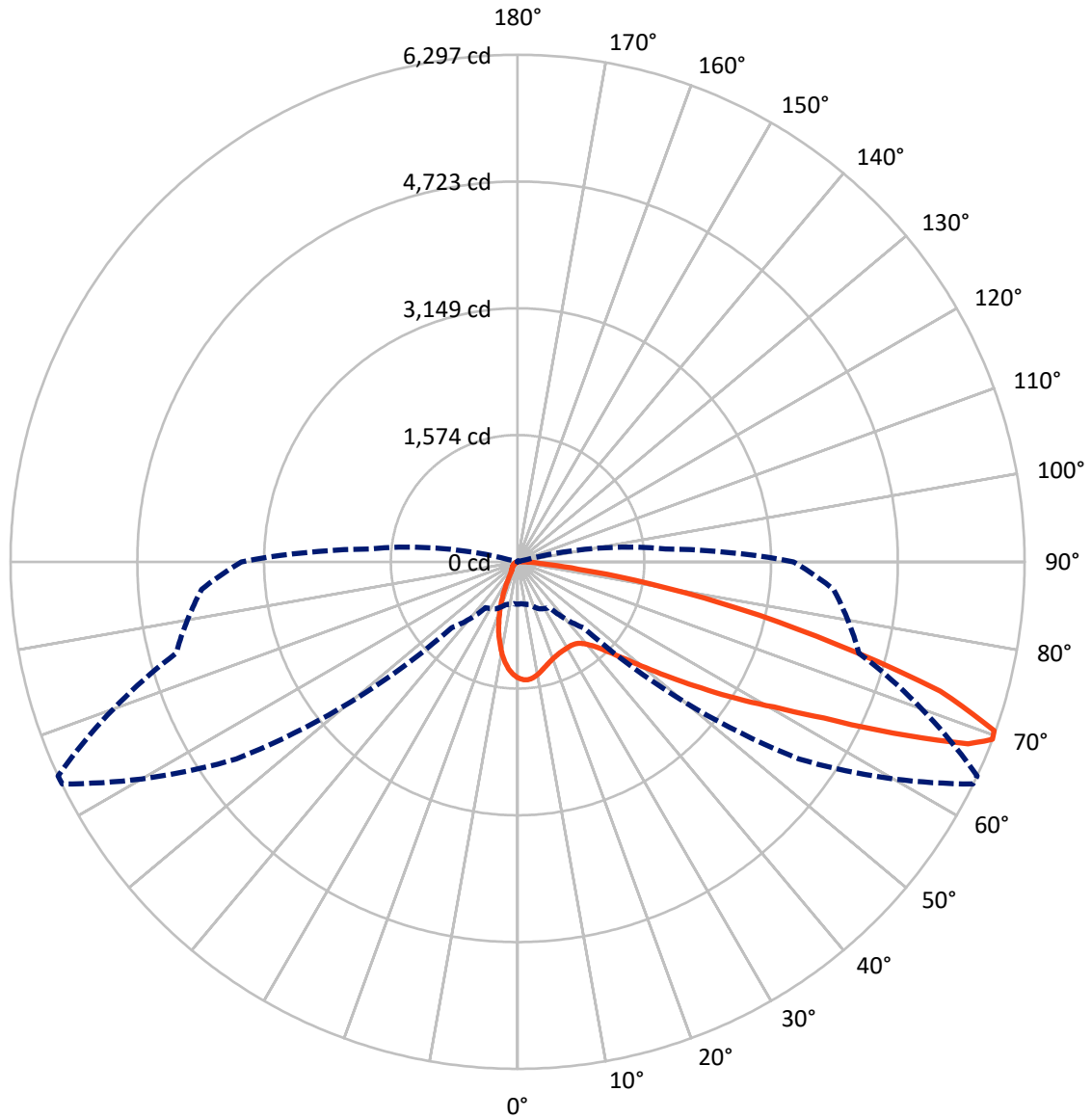
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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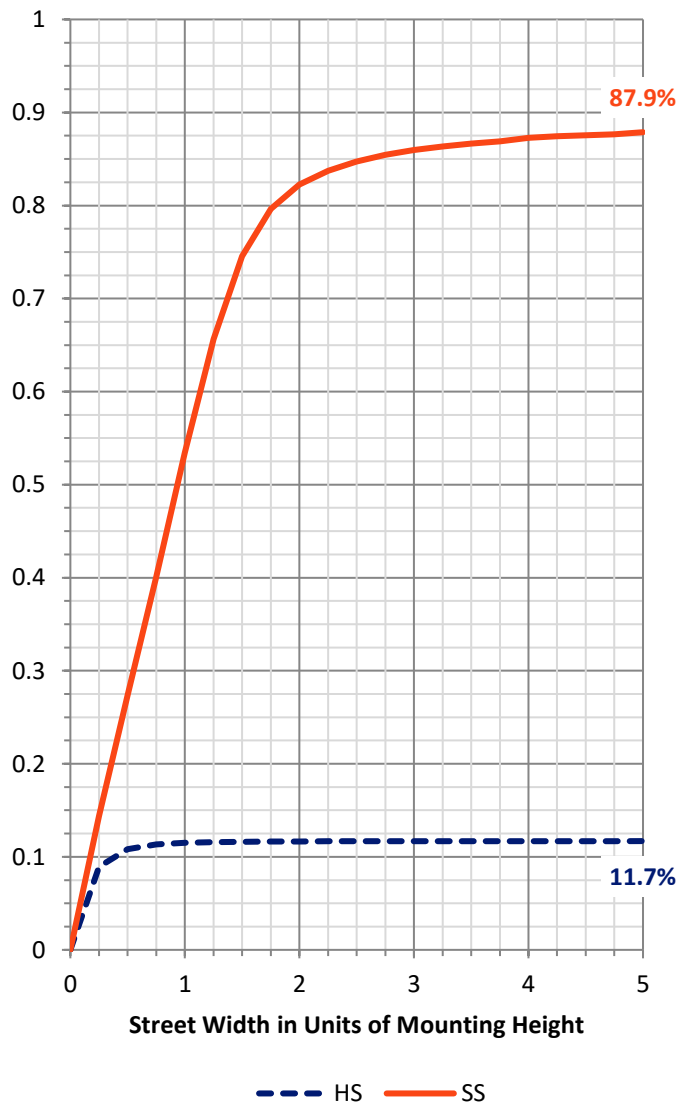
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	673.4	0.0	673.4
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	5039.7	0.0	5039.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	5713.2	0.0	5713.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	2.1
10°-20°	264.3	4.6
20°-30°	366.0	6.4
30°-40°	510.4	8.9
40°-50°	793.3	13.9
50°-60°	1273.5	22.3
60°-70°	1440.5	25.2
70°-80°	846.0	14.8
80°-90°	98.4	1.7
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°	5713.2	100.0
0°-180°	5713.2	100.0

**Coefficient of Utilization**

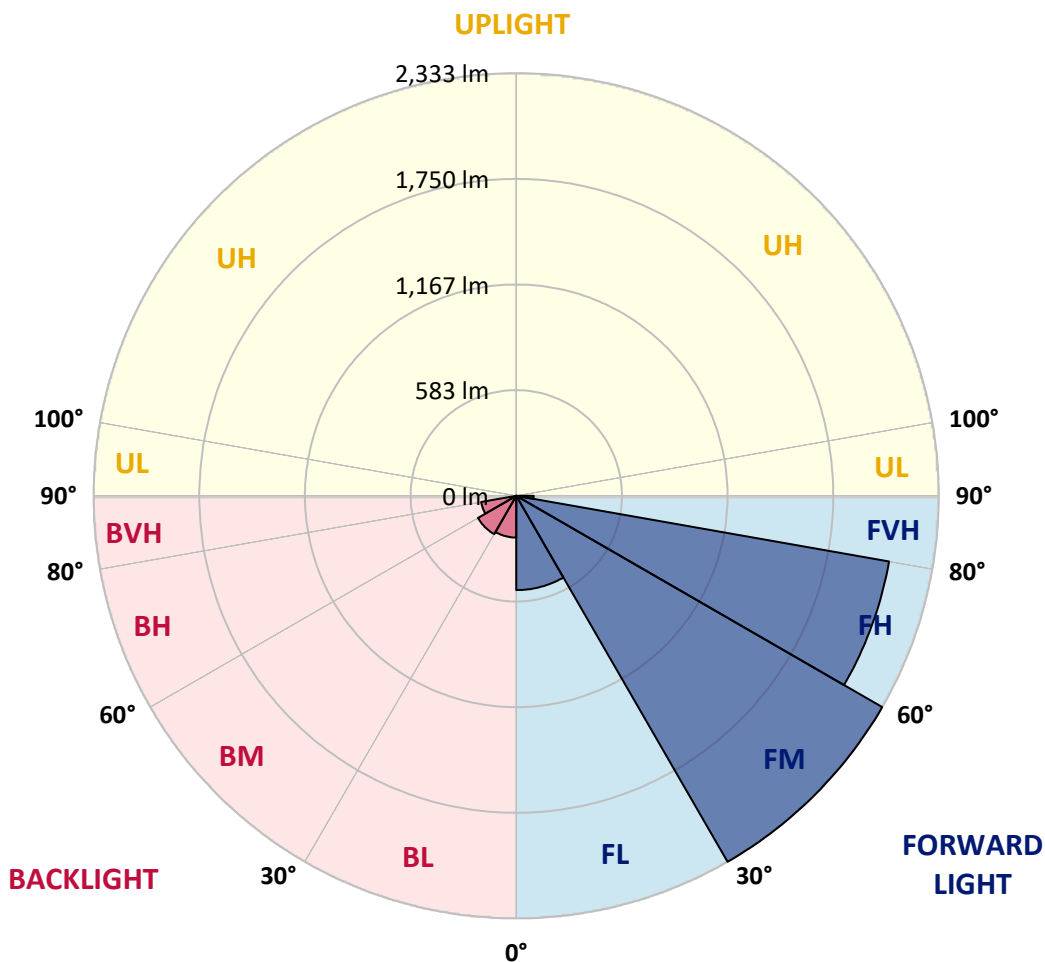


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.6	9.1			
FM (30°-60°)	2333.1	40.8			
FH (60°-80°)	2089.8	36.6			G2/5000
FVH (80°-90°)	96.2	1.7			G1/100
BL (0°-30°)	230.4	4.0	B1/500		
BM (30°-60°)	244.0	4.3	B1/1000		
BH (60°-80°)	196.8	3.4	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
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°	64°	65°	75°	85°
0°	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7
2.5°	1456.6	1452.9	1455.8	1462.1	1465.2	1465.2	1467.7	1464.8	1465.7	1458.7	1448.6
5°	1365.4	1359.9	1367.8	1385.5	1407.2	1425.8	1453.4	1467.9	1469.3	1469.6	1457.8
7.5°	1267.3	1262.2	1274.0	1294.9	1322.9	1357.5	1405.5	1447.6	1450.0	1472.8	1464.0
10°	1187.4	1183.8	1197.6	1219.9	1252.7	1291.4	1350.4	1408.9	1416.0	1466.3	1463.1
12.5°	1124.1	1121.2	1134.3	1159.9	1193.5	1236.3	1297.9	1365.9	1375.3	1451.4	1458.2
15°	1078.0	1077.5	1088.3	1113.0	1150.3	1190.1	1253.2	1326.0	1336.9	1435.5	1457.5
17.5°	1053.8	1054.5	1062.5	1083.5	1115.4	1155.1	1215.5	1292.4	1304.3	1421.3	1461.1
20°	1051.3	1052.1	1056.5	1068.3	1094.2	1129.2	1184.8	1264.1	1276.4	1410.6	1466.9
22.5°	1072.7	1072.1	1073.3	1072.1	1086.7	1113.3	1164.5	1242.3	1256.7	1403.6	1471.6
25°	1113.5	1112.7	1112.3	1103.3	1093.6	1108.0	1156.1	1230.0	1243.5	1398.5	1474.2
27.5°	1170.3	1169.8	1169.1	1154.4	1125.3	1116.4	1157.0	1225.5	1236.8	1394.4	1473.7
30°	1245.0	1248.4	1247.4	1226.8	1181.7	1142.3	1167.1	1223.0	1232.9	1386.4	1468.6
32.5°	1332.8	1339.6	1344.9	1322.9	1266.3	1193.5	1190.6	1225.6	1232.9	1380.4	1459.5
35°	1423.9	1432.6	1452.2	1444.5	1370.0	1270.6	1230.9	1241.7	1247.7	1383.8	1455.1
37.5°	1513.6	1524.0	1566.6	1589.0	1505.8	1372.6	1293.8	1281.1	1284.1	1404.3	1459.9
40°	1617.8	1633.5	1698.0	1734.4	1668.0	1509.2	1387.9	1348.7	1349.9	1449.5	1482.4
42.5°	1754.7	1770.8	1840.6	1897.5	1850.8	1681.8	1515.5	1452.2	1451.0	1534.2	1535.4
45°	1921.4	1938.4	2010.7	2073.7	2052.7	1886.4	1678.9	1603.3	1601.8	1667.6	1635.7
47.5°	2110.5	2127.2	2191.7	2256.8	2279.5	2125.2	1887.1	1809.5	1806.1	1853.0	1790.6
50°	2272.7	2283.6	2343.0	2430.6	2533.1	2418.7	2146.0	2071.3	2067.7	2099.3	2018.1
52.5°	2331.7	2338.0	2398.4	2521.0	2776.8	2816.2	2486.1	2390.0	2387.3	2401.1	2321.0
55°	2212.2	2223.6	2297.8	2479.6	2908.8	3265.4	2915.5	2784.5	2764.4	2734.7	2637.8
57.5°	1886.8	1905.0	1984.8	2226.5	2847.1	3621.7	3546.5	3230.8	3201.3	3019.4	2895.2
60°	1413.7	1436.0	1502.2	1763.0	2518.1	3748.5	4235.9	3728.1	3661.5	3246.3	3131.9
62.5°	970.1	981.3	1026.2	1196.2	1854.4	3540.6	4812.7	4394.0	4272.7	3492.8	3387.9
65°	741.0	744.9	763.2	821.7	1104.3	2876.1	5042.2	5272.8	5126.0	3787.8	3653.5
67.5°	597.1	594.0	619.4	703.0	739.6	1754.7	4774.6	6104.2	6035.5	4182.0	3921.0
69°	526.5	522.2	548.0	645.2	694.6	1159.9	4268.4	6293.0	6297.4	4390.2	3939.3
70°	473.8	476.8	502.4	610.9	679.3	910.4	3784.9	6244.9	6279.2	4468.0	3829.0
72.5°	316.4	324.2	375.7	507.2	653.2	689.0	2285.3	5358.9	5490.8	4292.8	3285.1
75°	178.4	184.2	245.4	382.5	615.5	656.1	1207.1	3948.0	4075.7	3589.7	2533.3
77.5°	87.5	90.6	138.8	246.9	514.7	625.2	684.6	2681.7	2827.5	2343.0	1432.8
80°	37.0	38.7	69.4	152.3	368.0	596.7	508.4	1650.4	1668.6	917.9	381.7
82.5°	14.3	14.7	29.3	95.0	233.8	465.1	425.3	782.5	763.7	172.9	87.0
85°	1.7	2.0	10.6	57.0	130.0	239.3	345.4	337.2	312.1	34.4	44.7
87.5°	0.0	0.0	0.7	17.4	38.7	112.2	179.6	140.0	126.2	11.1	23.2
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°	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7	1443.7
2.5°	1440.1	1437.7	1424.6	1405.8	1387.9	1365.6	1344.4	1331.6	1321.4	1314.6	1322.6
5°	1444.0	1433.4	1393.7	1342.9	1293.1	1237.0	1184.8	1140.6	1123.2	1103.8	1112.5
7.5°	1442.8	1422.7	1351.4	1260.9	1169.6	1075.1	985.6	916.7	881.0	845.8	854.8
10°	1436.7	1402.9	1294.9	1160.9	1024.1	888.2	761.3	664.8	610.9	562.1	569.1
12.5°	1423.4	1376.3	1228.1	1046.3	863.3	684.1	535.5	411.9	345.7	316.4	320.1
15°	1415.5	1350.4	1157.5	930.2	691.7	476.5	327.3	243.4	213.2	203.5	204.8
17.5°	1411.6	1325.5	1084.5	797.5	516.2	303.4	211.6	186.6	180.1	178.4	178.9
20°	1407.8	1300.3	1009.3	666.2	355.6	204.0	173.8	166.6	164.1	162.0	162.5
22.5°	1401.1	1276.2	928.6	533.3	239.8	165.6	156.7	149.6	144.6	141.9	142.4
25°	1393.2	1250.8	846.1	397.2	175.0	147.7	139.3	129.3	123.3	118.5	118.7
27.5°	1380.4	1219.7	761.1	289.2	147.0	132.3	120.9	110.0	99.9	94.3	94.3
30°	1362.5	1184.4	666.5	206.9	131.7	117.0	103.2	89.7	78.8	73.8	73.2
32.5°	1342.6	1147.6	571.0	156.9	119.7	102.7	87.0	72.8	63.1	59.0	58.8
35°	1325.8	1108.0	475.7	131.5	107.6	89.0	71.8	59.7	52.0	48.6	48.3
37.5°	1314.9	1068.3	383.0	117.5	96.7	76.1	60.2	49.3	43.8	41.1	40.9
40°	1313.2	1038.8	298.1	106.8	86.5	64.7	50.3	41.8	36.7	33.8	33.6
42.5°	1335.2	1021.9	228.7	97.9	76.1	54.9	42.8	35.8	30.5	27.6	27.3
45°	1392.9	1027.2	176.0	89.9	65.8	46.4	36.2	29.7	24.9	22.7	22.3
47.5°	1498.4	1063.9	140.0	82.0	55.8	39.4	30.9	24.7	20.6	18.4	18.2
50°	1686.0	1150.3	117.0	73.2	46.7	33.6	25.6	20.0	16.7	14.7	14.5
52.5°	1935.0	1304.0	104.4	64.7	38.7	28.5	21.1	15.9	13.0	11.6	11.4
55°	2209.6	1490.1	96.2	55.6	31.7	23.7	16.7	12.6	10.2	8.9	8.5
57.5°	2477.7	1651.4	88.5	46.7	26.4	19.4	13.3	9.9	8.0	6.8	6.5
60°	2724.0	1799.6	79.6	37.4	21.5	15.2	10.4	7.7	6.2	5.0	5.0
62.5°	2987.8	1914.1	67.2	29.3	17.6	11.6	8.5	7.0	5.0	4.4	4.1
65°	3267.2	1999.3	52.7	22.7	13.8	8.7	7.0	7.3	4.1	3.2	2.9
67.5°	3473.7	1982.3	38.9	17.9	10.6	6.8	6.8	7.7	3.6	2.4	2.1
69°	3428.3	1844.8	32.6	15.5	9.2	5.8	6.2	7.7	3.4	2.1	2.0
70°	3296.5	1692.5	28.8	13.8	8.2	5.3	6.1	7.5	3.2	2.1	2.0
72.5°	2745.3	1274.7	22.5	10.4	6.5	4.4	5.0	6.5	3.2	2.1	1.7
75°	2065.1	815.9	17.1	7.5	4.8	3.4	3.9	4.8	3.2	2.0	1.7
77.5°	1123.6	294.2	12.3	5.0	3.4	2.7	2.7	3.6	2.9	1.5	0.9
80°	288.9	74.0	7.7	3.4	2.7	2.0	1.7	2.4	1.7	0.3	0.0
82.5°	71.4	16.7	4.1	2.4	2.0	0.7	0.7	1.2	0.7	0.0	0.0
85°	39.1	8.2	2.7	1.7	0.9	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	20.0	2.4	0.7	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
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)