

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: P382867

Luminaire Tested: **GLEON-SA2B-735-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382867  
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-SA2B-735-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10688.6 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

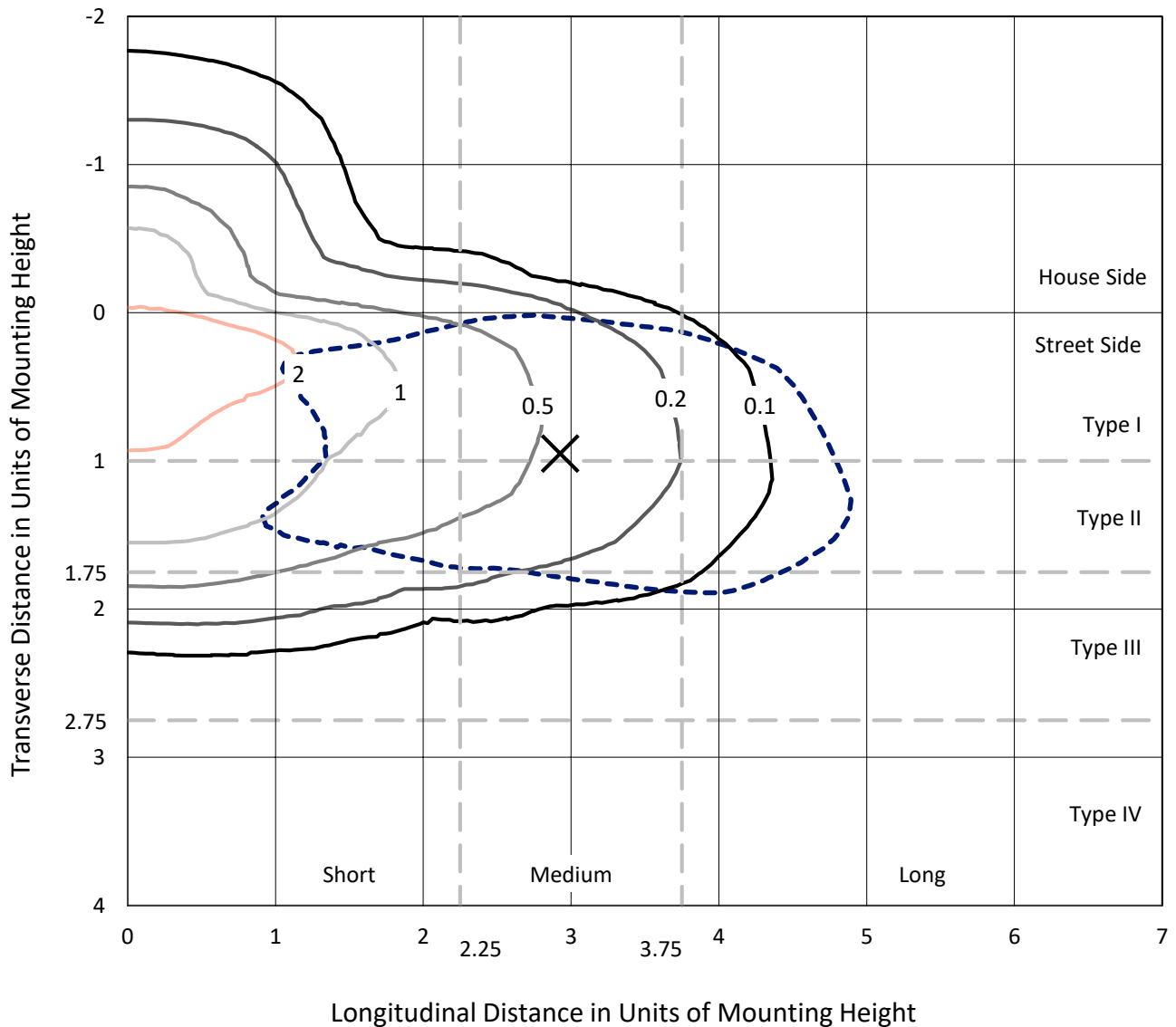
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

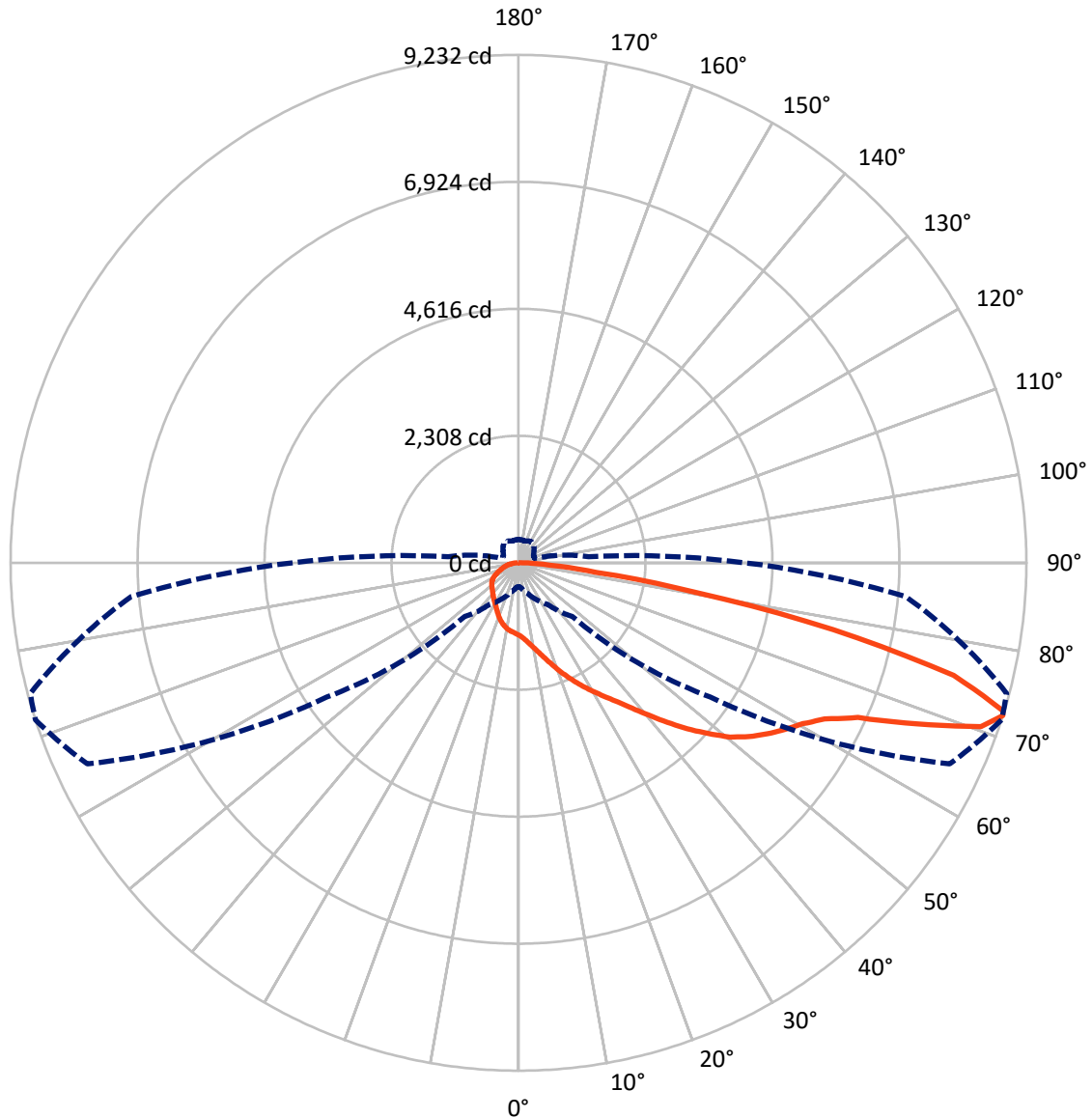
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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
<b>House Side</b>	Lumens	1982.8	0.0	1982.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	8705.8	0.0	8705.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	10688.6	0.0	10688.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.8	1.2
10°-20°	425.8	4.0
20°-30°	746.1	7.0
30°-40°	1106.3	10.4
40°-50°	1618.0	15.1
50°-60°	2226.4	20.8
60°-70°	2478.6	23.2
70°-80°	1679.5	15.7
80°-90°	276.0	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°	10688.6	100.0
0°-180°	10688.6	100.0

**Coefficient of Utilization**



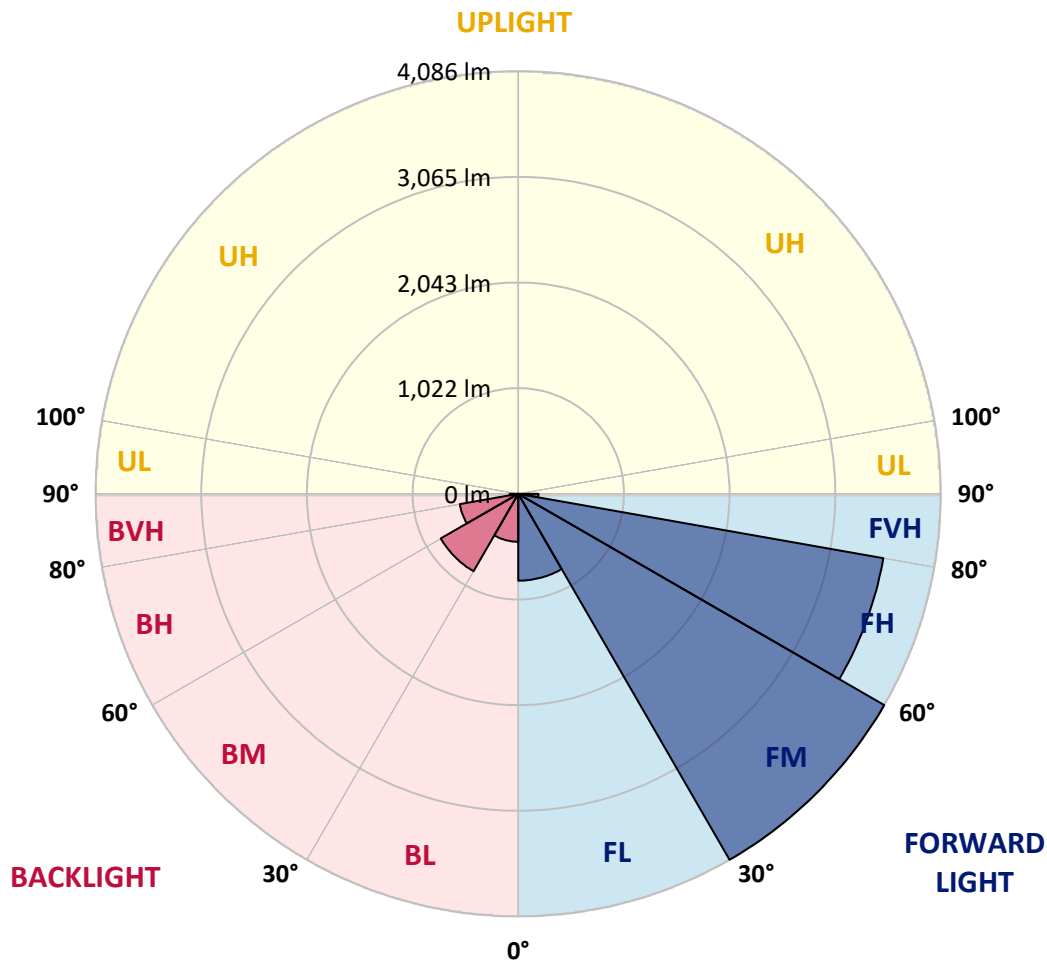
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.2	7.9			
FM (30°-60°)	4086.4	38.2			
FH (60°-80°)	3584.5	33.5			G2/5000
FVH (80°-90°)	194.7	1.8			G2/225
BL (0°-30°)	463.5	4.3	B1/500		
BM (30°-60°)	864.3	8.1	B1/1000		
BH (60°-80°)	573.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	81.3	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1452.7	1450.4	1442.7	1442.7	1428.0	1415.5	1391.9	1376.1	1357.3	1350.7	1328.6
5°	1593.2	1594.0	1584.4	1577.8	1556.1	1529.5	1489.5	1453.0	1416.5	1401.8	1356.5
7.5°	1711.3	1709.9	1707.3	1701.8	1681.5	1654.3	1600.2	1546.1	1492.3	1470.3	1392.3
10°	1787.2	1790.4	1792.7	1795.3	1786.8	1767.2	1716.1	1650.2	1580.0	1549.8	1435.0
12.5°	1825.5	1831.3	1841.7	1859.3	1873.2	1871.1	1833.9	1764.0	1680.4	1642.5	1488.3
15°	1847.9	1855.6	1871.8	1903.4	1942.8	1965.3	1955.3	1892.1	1798.9	1752.1	1553.4
17.5°	1861.9	1868.1	1893.2	1935.5	1994.0	2053.6	2079.8	2026.8	1932.9	1879.5	1628.2
20°	1871.5	1876.2	1907.5	1957.2	2033.0	2127.9	2200.8	2187.6	2080.5	2011.3	1706.2
22.5°	1892.8	1896.8	1926.6	1976.7	2060.6	2183.2	2317.5	2337.3	2236.2	2157.7	1789.7
25°	1952.4	1952.4	1977.4	2012.4	2091.1	2231.0	2416.2	2504.1	2395.1	2303.9	1867.0
27.5°	2066.1	2065.1	2074.2	2086.4	2146.0	2279.6	2504.1	2651.3	2560.0	2460.3	1942.1
30°	2200.8	2208.1	2209.3	2203.4	2231.3	2340.3	2585.4	2806.6	2726.0	2618.6	2019.0
32.5°	2374.1	2379.0	2373.4	2353.9	2349.9	2426.4	2665.3	2969.3	2905.6	2783.7	2089.3
35°	2594.3	2585.0	2567.7	2528.0	2490.1	2541.6	2756.5	3132.0	3107.3	2983.7	2186.1
37.5°	2830.1	2830.5	2809.2	2719.0	2666.7	2688.8	2882.4	3316.3	3351.2	3221.4	2310.1
40°	3019.3	3029.3	3042.5	2924.0	2856.3	2886.9	3042.5	3530.2	3639.8	3503.3	2471.7
42.5°	3151.4	3162.9	3200.4	3126.1	3055.8	3112.4	3231.0	3758.3	3963.7	3828.7	2660.9
45°	3291.3	3297.6	3324.0	3292.0	3247.1	3374.8	3443.3	3994.6	4306.4	4175.3	2872.5
47.5°	3438.5	3445.1	3472.3	3451.0	3427.4	3620.0	3664.9	4217.3	4634.6	4556.2	3098.4
50°	3620.3	3624.7	3650.5	3611.9	3619.2	3804.7	3862.8	4421.5	4978.7	4898.4	3325.2
52.5°	3868.3	3869.5	3905.1	3870.2	3835.6	3940.2	4033.2	4614.0	5248.5	5210.6	3551.9
55°	4062.7	4074.5	4191.5	4184.1	4164.3	4063.0	4175.7	4797.3	5489.1	5507.2	3792.5
57.5°	3938.7	3984.7	4221.7	4388.8	4551.4	4368.9	4368.1	5003.7	5712.9	5798.3	4057.2
60°	3449.5	3512.1	3861.4	4232.0	4741.0	4901.1	4767.8	5255.9	5938.9	6086.8	4388.8
62.5°	2463.6	2566.6	3039.9	3631.7	4481.1	5253.6	5581.2	5655.9	6246.2	6421.1	4819.7
65°	1245.4	1323.4	1720.2	2433.0	3580.2	5023.3	6465.2	6531.8	6780.3	6935.6	5483.3
67.5°	756.7	786.1	979.7	1353.3	2194.9	3912.9	6753.7	7991.7	7813.6	7896.1	6429.5
70°	557.5	579.2	700.0	898.8	1262.3	2296.2	5868.3	9033.7	8916.7	8907.5	7128.8
72°	434.3	450.1	556.8	726.1	923.0	1377.6	4253.4	8649.0	9232.4	9186.1	7064.8
72.5°	411.8	425.8	523.0	683.5	872.2	1248.7	3824.2	8389.6	9209.6	9188.6	6981.9
75°	324.3	334.1	387.2	528.5	682.7	708.4	2095.6	6501.6	8170.0	8509.6	6279.7
77.5°	268.3	269.8	297.7	384.6	532.2	500.9	1029.4	4510.9	5850.2	6223.8	4448.4
80°	218.6	220.4	233.7	269.8	402.6	370.6	488.8	2593.9	3275.5	3279.5	2115.5
82.5°	174.1	174.5	189.2	197.3	289.2	265.0	280.1	1217.8	1431.2	1376.8	760.3
85°	122.6	120.0	184.7	161.9	189.2	170.0	154.5	482.1	591.8	566.0	238.1
87.5°	40.9	42.3	82.1	104.9	110.4	96.4	68.8	184.7	223.4	221.5	75.5
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°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1321.6	1309.8	1292.5	1273.4	1258.3	1242.9	1231.4	1225.5	1218.9	1213.4	1220.0
5°	1335.6	1313.5	1276.7	1240.6	1214.2	1190.6	1173.7	1164.8	1156.7	1151.2	1152.0
7.5°	1358.4	1322.7	1260.8	1208.2	1171.4	1146.1	1128.8	1122.9	1117.7	1116.3	1118.0
10°	1382.7	1330.1	1239.9	1169.9	1128.0	1107.1	1099.3	1103.3	1107.1	1110.3	1114.0
12.5°	1410.3	1336.7	1209.3	1125.0	1089.4	1081.2	1089.0	1106.7	1119.5	1127.3	1132.0
15°	1446.3	1342.5	1174.0	1080.1	1056.3	1065.4	1091.6	1122.1	1144.6	1158.9	1161.2
17.5°	1479.5	1342.2	1128.8	1034.9	1029.4	1056.3	1095.6	1138.7	1168.9	1189.1	1193.1
20°	1513.7	1332.3	1076.1	990.7	1002.2	1046.3	1097.5	1149.3	1185.8	1209.3	1214.8
22.5°	1545.7	1315.0	1018.4	950.6	979.3	1033.1	1090.5	1143.1	1179.5	1198.7	1204.6
25°	1567.4	1284.8	959.9	916.7	959.1	1016.9	1067.6	1109.9	1137.2	1146.8	1148.2
27.5°	1578.5	1245.4	904.6	887.3	938.1	990.3	1025.4	1046.3	1054.0	1053.3	1051.8
30°	1580.0	1193.5	857.1	863.4	913.8	951.4	967.9	963.9	953.9	937.0	938.4
32.5°	1575.2	1135.0	817.4	840.6	882.9	903.9	904.6	885.2	858.6	831.8	824.4
35°	1576.6	1077.6	782.4	814.8	845.4	854.6	846.1	817.4	781.3	746.7	739.4
37.5°	1592.9	1027.5	752.2	785.0	803.7	806.0	793.9	763.7	737.1	703.3	700.3
40°	1631.5	991.8	723.5	751.5	762.2	763.3	746.0	724.7	726.9	708.8	708.4
42.5°	1701.0	976.4	698.2	716.5	723.2	725.4	712.2	698.6	717.7	705.9	701.8
45°	1790.8	980.1	676.8	682.4	694.5	704.8	696.7	680.1	687.5	636.3	619.4
47.5°	1894.6	1003.6	659.9	652.9	673.9	693.4	680.9	655.8	629.7	579.0	569.4
50°	2016.1	1040.1	644.4	623.9	651.4	677.9	665.4	629.7	590.3	565.6	562.4
52.5°	2142.7	1084.6	629.0	591.8	623.1	666.1	659.9	623.9	575.2	550.9	546.5
55°	2286.2	1129.5	609.4	554.6	592.6	660.7	657.3	602.4	563.9	550.2	546.9
57.5°	2464.7	1180.6	583.7	516.0	563.9	640.7	630.5	589.6	552.0	541.7	540.7
60°	2697.3	1256.1	546.5	474.7	528.8	610.2	608.0	570.9	533.3	526.0	524.5
62.5°	3046.2	1380.8	495.4	433.5	489.8	558.3	578.6	545.4	513.4	513.0	513.7
65°	3587.2	1568.5	439.8	397.5	450.5	514.5	544.3	519.3	493.2	500.5	501.6
67.5°	4214.3	1724.2	385.3	362.2	410.3	472.9	513.4	493.2	466.3	485.4	485.8
70°	4423.0	1585.1	337.5	327.2	368.8	432.8	479.9	464.5	437.2	456.4	454.5
72°	4116.0	1279.7	306.6	300.7	337.5	399.7	450.1	437.5	410.7	423.6	418.8
72.5°	4019.3	1220.0	298.8	294.1	329.0	391.2	442.4	430.9	404.1	415.1	410.7
75°	3585.3	1059.5	256.9	257.9	287.1	350.0	399.0	395.3	367.7	368.8	367.3
77.5°	2600.5	776.9	216.4	223.8	244.3	307.7	355.1	353.0	322.8	317.3	316.2
80°	1206.7	396.4	176.2	179.6	200.9	257.3	302.8	300.0	275.6	268.7	264.7
82.5°	413.3	188.5	132.5	134.7	155.7	207.2	262.8	260.9	240.7	227.1	218.6
85°	147.6	93.8	92.8	90.5	111.1	163.0	228.9	219.0	189.2	161.2	160.5
87.5°	47.9	40.1	47.9	47.5	64.7	110.4	166.4	141.7	137.3	114.1	111.9
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)