

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: P646753

Luminaire Tested: **GALN-SA1C-835-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5523.3 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

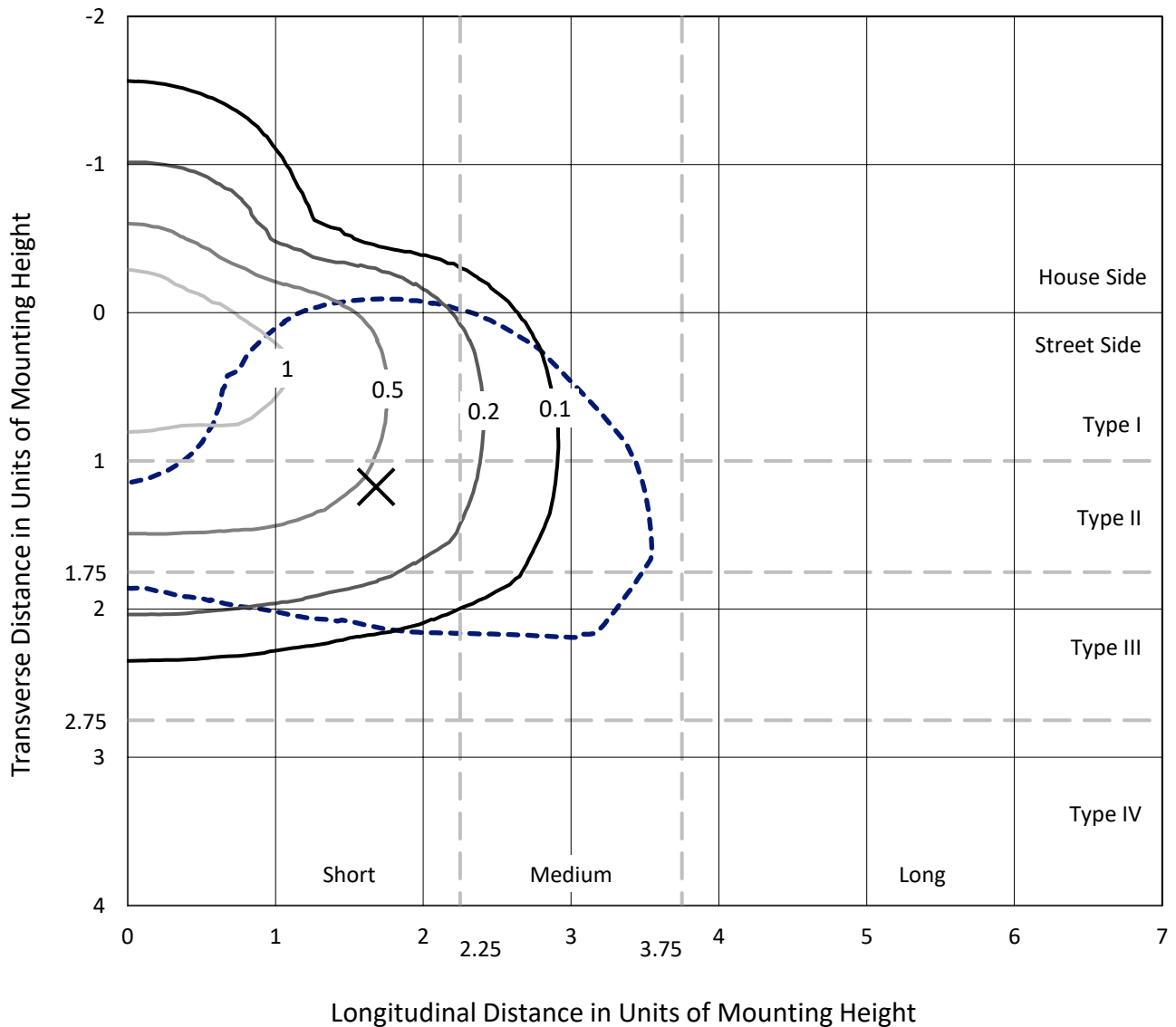
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

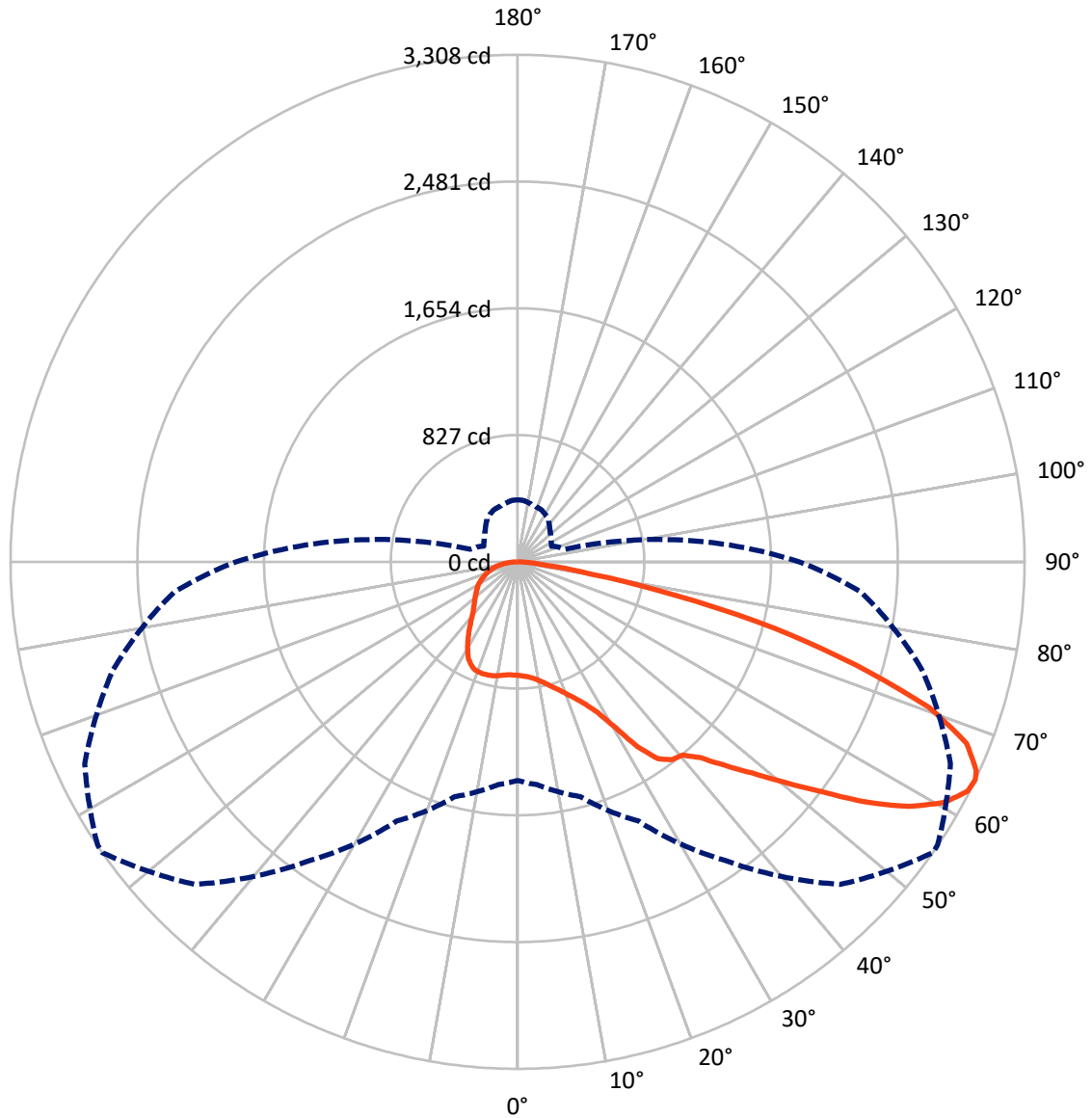
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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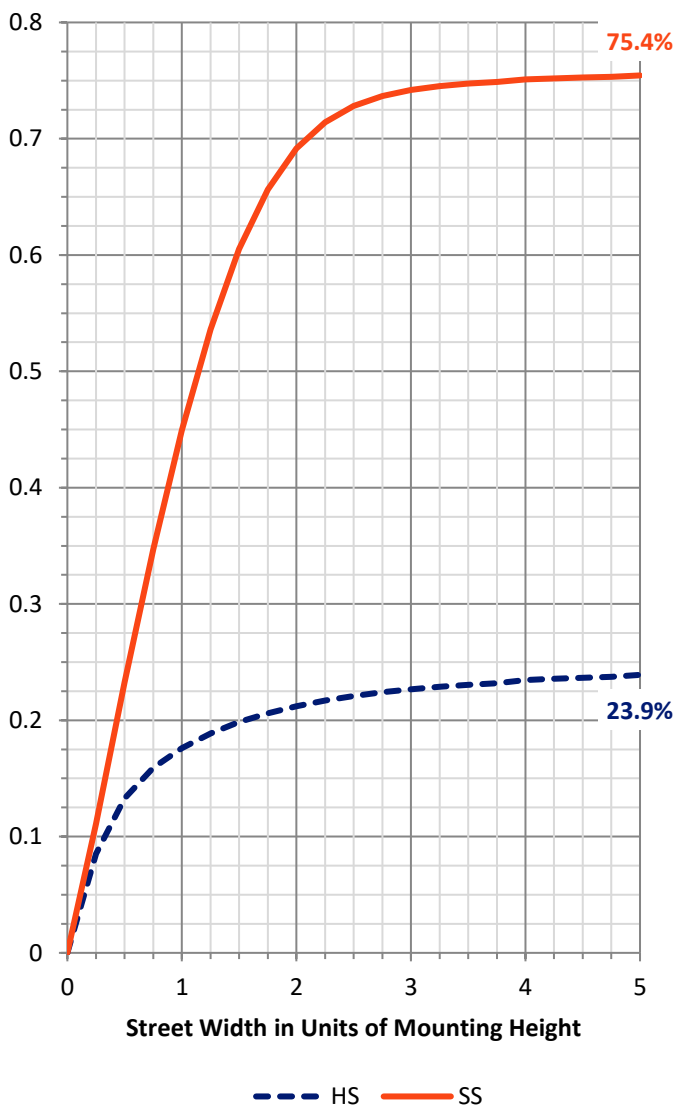
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1341.7	0.0	1341.7
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	4181.6	0.0	4181.6
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	5523.3	0.0	5523.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	1.3
10°-20°	227.5	4.1
20°-30°	404.9	7.3
30°-40°	623.0	11.3
40°-50°	883.2	16.0
50°-60°	1278.4	23.1
60°-70°	1323.0	24.0
70°-80°	619.6	11.2
80°-90°	91.7	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°	5523.3	100.0
0°-180°	5523.3	100.0

**Coefficient of Utilization**



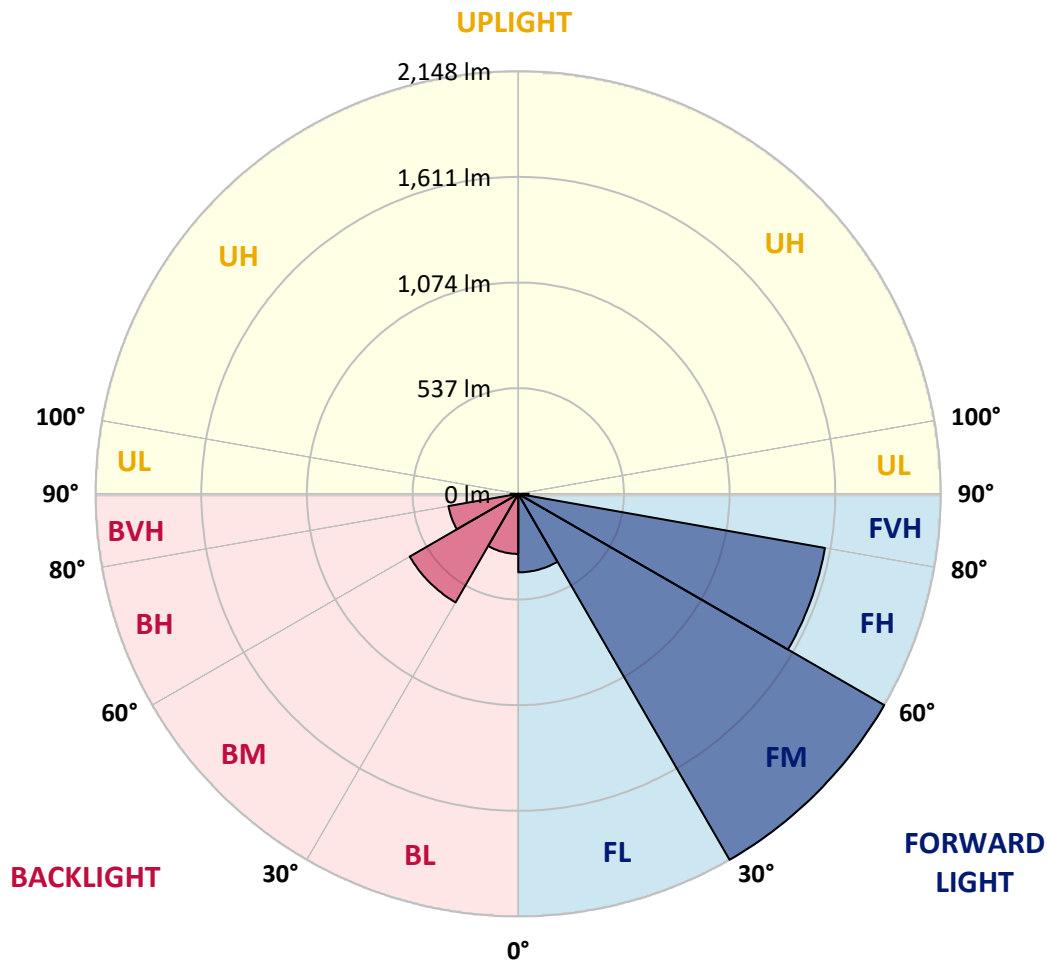
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.9	7.2			
FM (30°-60°)	2147.6	38.9			
FH (60°-80°)	1582.6	28.7			G1/1800
FVH (80°-90°)	52.5	1.0			G1/100
BL (0°-30°)	305.6	5.5	B1/500		
BM (30°-60°)	637.0	11.5	B1/1000		
BH (60°-80°)	360.0	6.5	B1/500		G1/500
BVH (80°-90°)	39.2	0.7			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
2.5°	749.4	749.1	750.0	749.1	749.6	747.5	746.6	747.2	746.3	744.8	742.0
5°	758.6	758.3	758.6	757.4	758.0	756.8	754.6	755.2	753.7	750.3	746.3
7.5°	774.3	773.1	773.1	772.7	771.6	769.7	768.1	767.5	766.0	761.7	755.5
10°	794.7	794.7	794.9	792.5	794.0	790.6	789.1	788.8	783.5	778.0	769.4
12.5°	821.4	822.9	822.0	820.8	820.2	818.9	813.7	814.9	809.1	799.5	789.1
15°	854.6	857.2	855.6	855.0	853.5	848.9	846.7	845.7	838.0	824.2	810.3
17.5°	898.7	895.6	894.3	892.9	886.4	883.0	879.3	878.7	871.9	855.6	834.1
20°	937.2	941.5	939.1	937.5	931.0	924.6	921.7	920.9	915.0	897.2	862.6
22.5°	983.1	984.0	984.9	981.2	978.1	973.2	968.3	966.7	964.6	946.1	903.9
25°	1032.0	1035.7	1032.6	1028.9	1025.3	1024.9	1029.6	1028.9	1028.0	1010.1	958.7
27.5°	1111.7	1115.1	1116.1	1112.0	1097.9	1099.1	1109.6	1113.0	1127.1	1097.6	1029.3
30°	1156.7	1160.1	1167.8	1182.9	1205.4	1225.0	1250.3	1258.0	1271.5	1215.8	1113.0
32.5°	1184.4	1185.6	1199.5	1227.5	1294.9	1368.5	1437.2	1439.9	1448.6	1370.3	1189.6
35°	1228.1	1229.1	1240.1	1270.9	1350.0	1472.6	1578.8	1582.2	1575.1	1418.4	1225.3
37.5°	1282.0	1284.4	1291.6	1317.1	1411.6	1559.7	1637.6	1635.1	1572.3	1456.5	1288.4
40°	1360.5	1360.5	1352.2	1386.7	1476.6	1609.6	1658.2	1653.9	1637.3	1567.1	1384.5
42.5°	1429.8	1428.6	1448.2	1471.6	1557.9	1686.6	1744.8	1751.8	1779.2	1705.9	1493.8
45°	1520.0	1525.5	1536.6	1579.1	1696.1	1818.0	1893.1	1899.9	1938.7	1869.4	1621.6
47.5°	1611.1	1613.0	1647.7	1704.4	1867.3	1996.3	2057.9	2068.9	2104.3	2060.6	1759.2
50°	1675.8	1693.3	1749.1	1838.3	2043.7	2213.6	2261.7	2274.9	2337.4	2268.7	1919.6
52.5°	1744.1	1761.4	1829.4	1965.5	2246.3	2435.9	2495.0	2504.0	2568.9	2479.3	2083.7
55°	1802.6	1818.6	1895.9	2078.2	2407.6	2662.8	2769.9	2759.5	2790.6	2641.6	2210.3
57.5°	1812.2	1825.1	1922.3	2150.2	2528.9	2857.4	3011.0	3017.2	2981.2	2762.9	2314.6
60°	1738.3	1764.7	1876.5	2142.5	2583.4	2992.9	3190.8	3195.1	3092.9	2825.1	2356.2
62.5°	1607.4	1604.7	1739.8	2018.7	2507.0	3023.6	3296.7	3292.1	3136.6	2795.2	2315.9
64°	1426.7	1460.0	1586.2	1866.7	2383.9	2976.3	3307.8	3305.4	3115.7	2733.0	2247.2
65°	1316.5	1314.7	1439.3	1742.3	2261.4	2904.8	3288.1	3284.8	3072.0	2677.3	2193.9
67.5°	950.4	954.7	1077.9	1344.5	1838.3	2625.6	3159.7	3147.1	2899.6	2492.6	1991.3
70°	575.7	578.2	674.9	891.9	1319.6	2122.5	2848.2	2848.8	2635.7	2216.7	1694.9
72.5°	303.3	309.8	348.5	506.4	801.4	1489.2	2310.6	2365.4	2262.9	1891.9	1338.9
75°	168.7	169.7	197.0	249.7	408.9	833.4	1736.7	1752.4	1791.5	1522.8	990.1
77.5°	128.7	130.5	139.1	161.3	222.6	386.4	1051.1	1129.9	1262.6	1073.6	564.9
80°	104.4	106.3	113.6	126.8	148.1	183.2	488.3	530.8	675.8	476.6	220.4
82.5°	81.3	80.0	89.6	98.2	107.7	108.4	200.4	221.7	275.2	205.1	95.4
85°	60.4	60.4	68.0	66.2	69.6	63.4	88.3	97.6	110.2	87.1	44.3
87.5°	24.0	26.5	44.6	40.0	31.1	24.9	32.7	34.5	38.2	34.1	18.5
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°	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
2.5°	742.3	743.2	741.0	739.5	738.9	738.0	737.0	737.4	738.6	739.9	739.5
5°	746.0	746.3	742.6	740.7	739.5	738.3	738.3	739.2	741.7	743.5	743.5
7.5°	755.2	755.2	750.0	746.6	744.8	742.6	742.0	742.3	744.2	746.6	746.9
10°	769.7	768.4	761.7	756.5	753.1	747.8	743.2	740.7	741.7	743.2	743.2
12.5°	787.2	783.9	775.2	768.1	759.8	750.0	740.4	735.6	735.2	736.7	736.1
15°	806.0	802.3	790.3	777.4	763.0	748.5	737.0	730.0	724.4	722.9	726.3
17.5°	827.9	820.2	803.6	785.7	764.1	745.3	727.5	713.1	703.2	700.4	701.3
20°	854.3	844.2	821.8	793.7	763.2	734.3	706.6	687.2	671.2	666.3	666.9
22.5°	891.0	873.4	840.5	797.7	755.5	713.3	674.9	649.7	630.2	622.6	627.1
25°	932.6	913.4	858.3	796.8	735.6	679.8	637.3	604.4	586.8	575.4	577.9
27.5°	989.8	956.0	877.4	788.5	706.9	638.8	589.6	558.5	542.5	536.6	539.4
30°	1063.1	1011.1	898.1	766.0	661.6	587.1	541.5	521.2	511.7	504.3	506.8
32.5°	1116.1	1049.8	902.7	728.1	612.7	540.0	509.0	493.8	483.3	476.3	477.8
35°	1153.9	1082.8	900.5	681.6	561.6	501.2	483.0	470.7	453.8	438.4	435.7
37.5°	1204.7	1124.1	884.9	630.9	511.1	475.0	462.1	439.3	415.0	394.4	393.5
40°	1282.6	1172.4	851.3	571.1	468.0	455.6	440.0	410.4	384.2	367.6	366.4
42.5°	1363.0	1217.0	805.7	508.3	432.5	435.3	416.2	387.0	371.0	360.2	359.0
45°	1461.2	1265.4	756.5	453.8	406.4	416.2	395.6	378.7	369.1	362.1	360.2
47.5°	1567.4	1315.0	701.0	404.9	384.2	398.7	387.0	379.3	374.0	369.1	367.0
50°	1682.0	1370.3	649.0	365.4	364.3	380.5	386.1	383.3	380.2	378.7	376.9
52.5°	1807.6	1427.0	605.3	337.7	346.6	367.6	386.4	388.5	388.5	387.6	386.4
55°	1892.5	1466.4	560.9	315.2	328.8	357.1	385.8	394.1	397.1	396.0	394.7
57.5°	1955.3	1487.9	505.2	295.9	313.7	346.9	382.4	394.7	397.8	399.3	398.7
60°	1968.2	1468.0	432.3	275.5	297.4	332.2	370.0	385.5	389.5	399.0	400.0
62.5°	1910.1	1406.3	359.6	255.6	277.4	309.8	353.4	375.0	383.0	397.8	399.3
64°	1838.6	1337.4	319.2	242.9	264.5	297.1	345.1	372.2	382.7	402.4	403.6
65°	1786.3	1287.3	294.0	234.9	256.1	288.8	340.5	373.2	385.5	409.5	411.3
67.5°	1593.6	1114.5	243.2	216.1	236.5	274.6	341.5	380.9	384.8	412.2	411.9
70°	1318.7	887.3	203.8	198.9	217.4	263.2	337.7	368.6	368.9	387.0	382.7
72.5°	987.4	655.8	176.7	181.0	196.1	236.2	319.0	351.9	346.6	349.1	344.8
75°	678.2	433.8	152.1	161.9	174.0	208.7	292.5	319.5	311.2	308.2	305.1
77.5°	362.1	239.8	126.5	143.1	151.2	180.4	255.3	281.4	272.8	260.7	256.7
80°	146.6	113.0	101.9	118.5	123.2	145.3	212.4	228.7	222.3	201.4	194.6
82.5°	73.6	67.7	80.0	93.3	93.6	103.7	157.9	173.4	158.9	133.3	127.5
85°	38.5	39.7	55.1	65.6	57.9	56.1	94.8	105.0	96.4	83.8	75.4
87.5°	13.9	16.0	29.0	28.7	20.4	10.8	20.9	10.2	5.6	3.4	4.3
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)