

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: P450825

Luminaire Tested: **GALN-SA1C-827-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5218 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

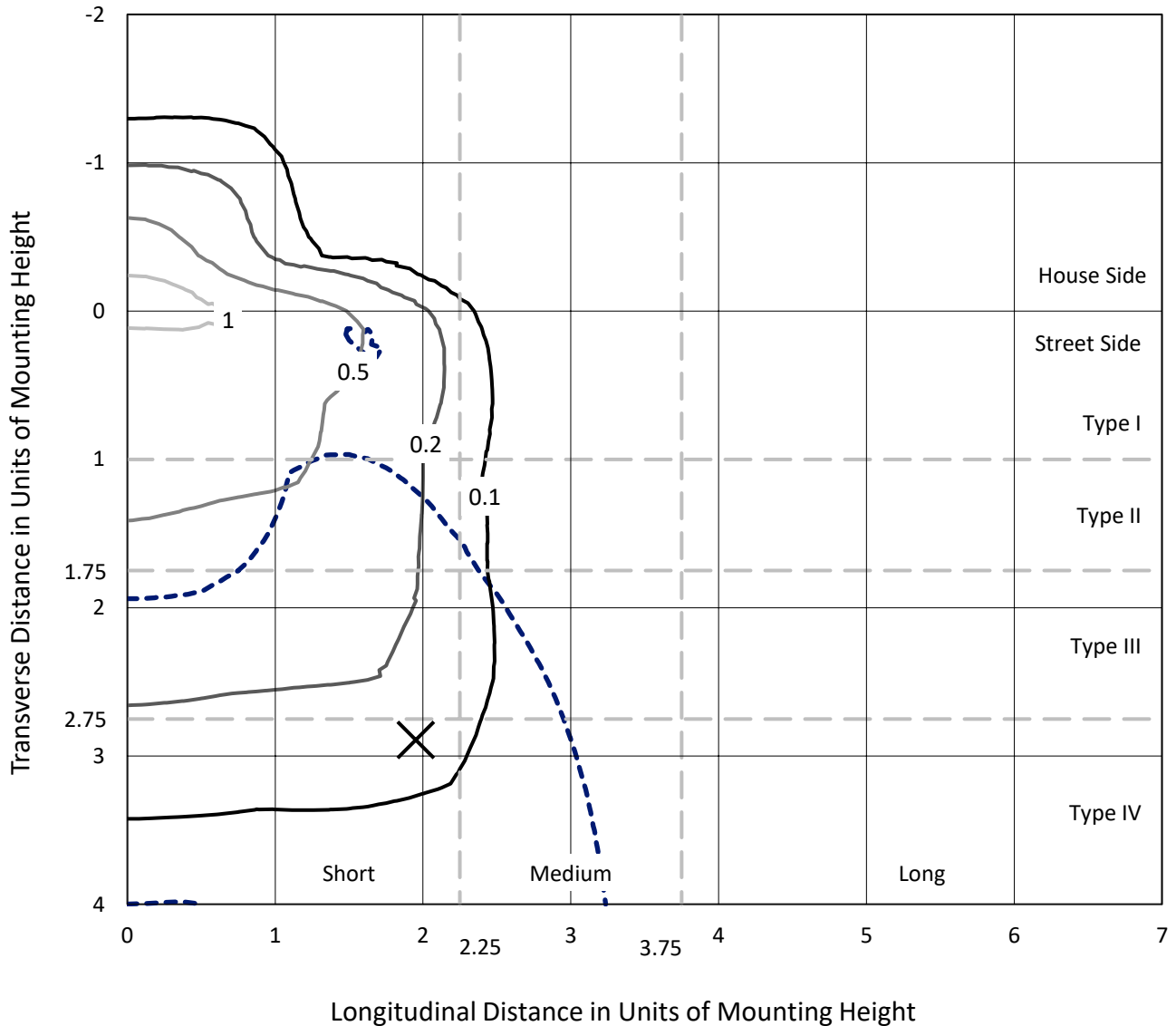
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

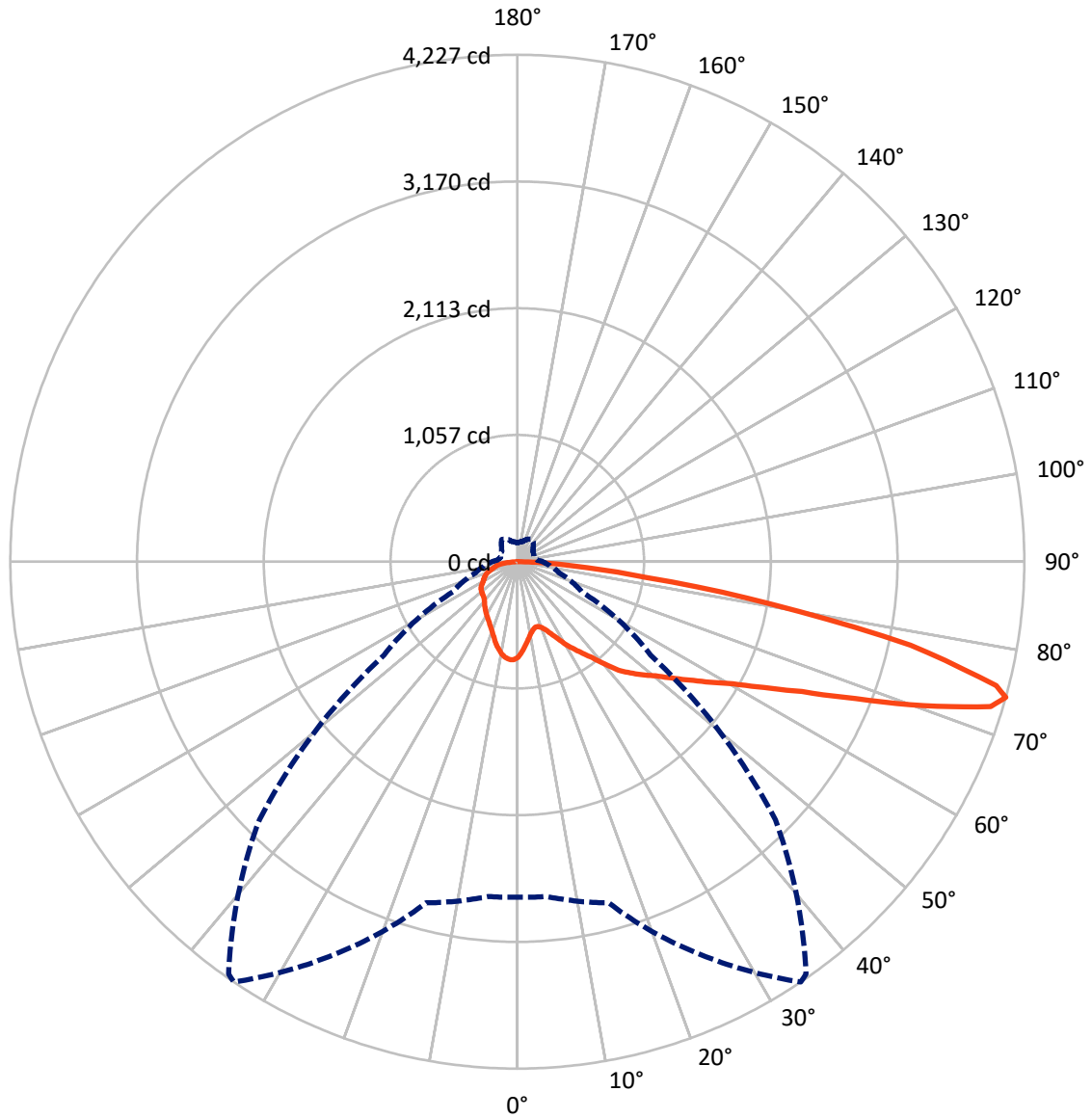
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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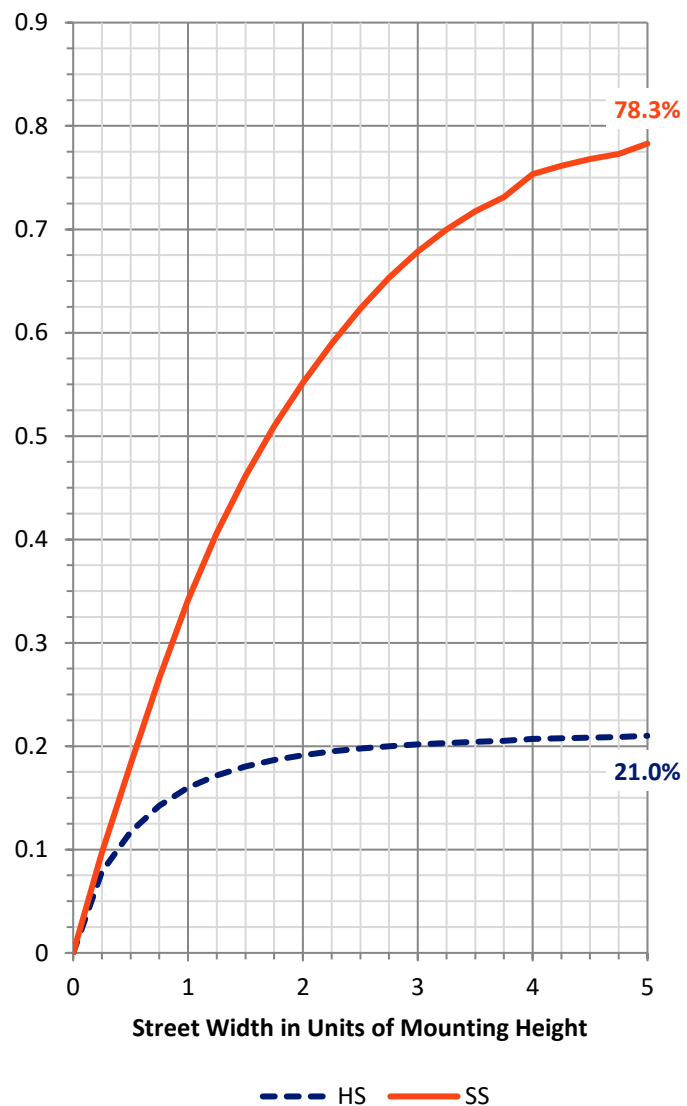
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1110.4	0.0	1110.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	4107.6	0.0	4107.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	5218.0	0.0	5218.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.4
10°-20°	198.3	3.8
20°-30°	327.0	6.3
30°-40°	489.8	9.4
40°-50°	712.1	13.6
50°-60°	994.6	19.1
60°-70°	1245.2	23.9
70°-80°	1029.7	19.7
80°-90°	148.8	2.9
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°	5218.0	100.0
0°-180°	5218.0	100.0



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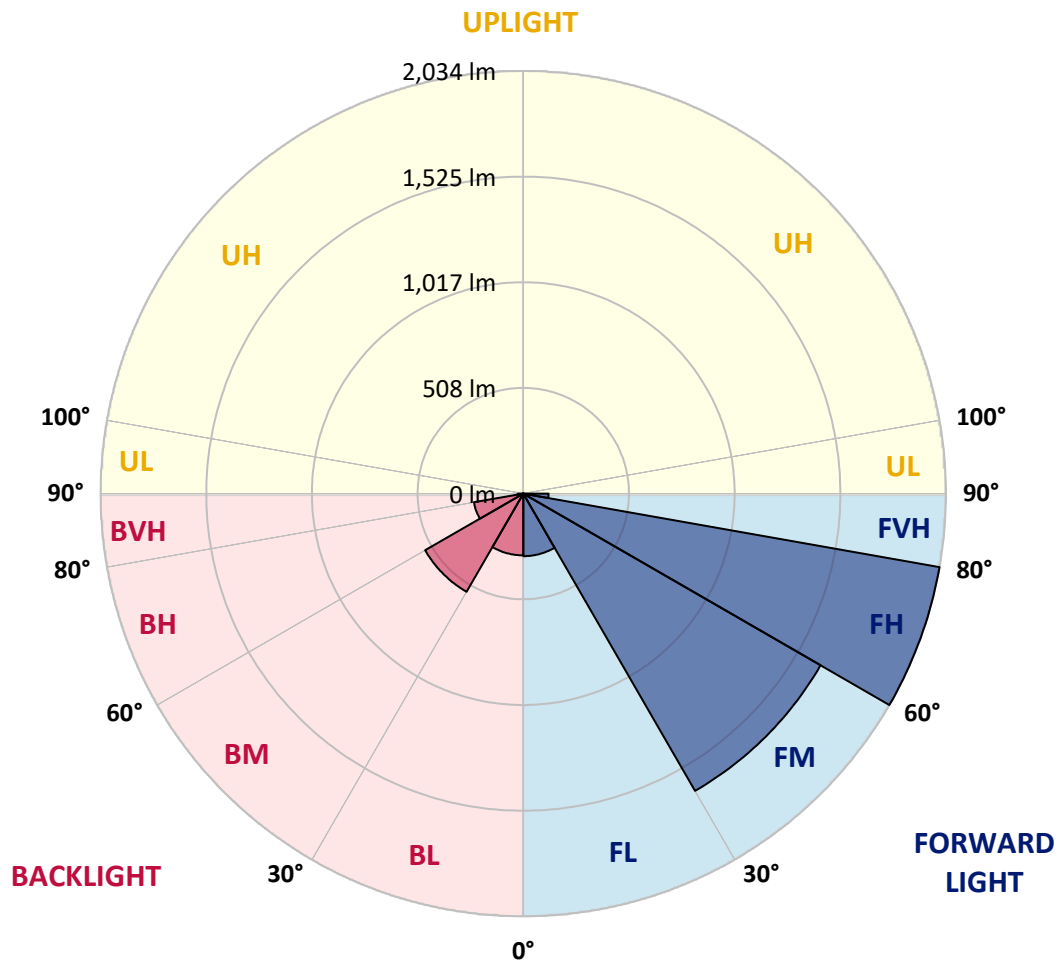
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	300.8	5.8			
FM (30°-60°)	1651.2	31.6			
FH (60°-80°)	2033.7	39.0			G2/5000
FVH (80°-90°)	121.9	2.3			G2/225
BL (0°-30°)	297.0	5.7	B1/500		
BM (30°-60°)	545.3	10.5	B1/1000		
BH (60°-80°)	241.2	4.6	B1/500		G1/500
BVH (80°-90°)	26.9	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7
2.5°	736.3	740.0	742.1	749.3	751.0	753.3	759.4	767.5	777.9	787.1	795.2
5°	675.0	680.8	684.2	690.6	703.0	704.2	720.4	738.9	760.0	779.6	795.8
7.5°	616.9	623.2	626.1	637.7	654.2	656.8	680.5	709.7	744.9	774.7	799.6
10°	573.2	576.4	582.8	591.4	611.1	612.8	643.8	682.8	728.5	772.4	805.9
12.5°	549.5	551.3	552.7	562.0	581.3	583.9	616.3	660.5	715.5	774.1	816.3
15°	553.0	553.6	547.2	548.9	564.6	568.3	600.4	645.8	707.4	778.5	832.0
17.5°	582.2	580.2	564.6	556.5	567.5	569.2	597.2	640.0	703.6	786.6	848.1
20°	628.2	625.3	598.4	580.5	586.8	588.3	607.6	644.3	707.4	799.9	873.3
22.5°	685.4	684.2	643.5	621.8	621.5	621.5	631.6	660.0	718.6	818.1	899.6
25°	765.5	759.4	706.2	678.2	670.4	669.8	668.6	685.7	733.1	837.4	930.8
27.5°	847.6	837.2	789.7	746.7	729.9	727.9	720.4	722.1	751.6	859.4	966.4
30°	921.3	914.6	870.1	822.4	802.5	797.8	777.0	767.5	782.5	899.0	1023.0
32.5°	977.6	973.6	938.9	895.5	866.1	865.2	834.8	827.0	830.8	947.0	1087.8
35°	1023.3	1024.8	1007.1	969.6	935.7	930.8	910.6	900.8	889.8	1016.4	1169.3
37.5°	1085.8	1088.9	1087.8	1055.4	1014.1	1015.2	1010.6	994.4	965.2	1093.9	1259.8
40°	1154.6	1156.9	1156.6	1144.2	1122.5	1123.6	1121.9	1103.4	1059.7	1192.4	1360.4
42.5°	1249.7	1238.7	1210.1	1222.5	1235.2	1240.7	1252.6	1234.9	1175.1	1297.6	1454.9
45°	1356.0	1335.2	1270.5	1276.3	1323.4	1333.8	1399.1	1374.8	1300.3	1418.5	1566.2
47.5°	1423.1	1402.6	1347.9	1346.8	1409.2	1419.3	1535.0	1526.0	1414.1	1548.9	1702.1
50°	1482.9	1480.1	1418.5	1433.2	1494.2	1509.3	1683.0	1674.6	1527.8	1702.6	1850.1
52.5°	1571.7	1548.3	1499.1	1529.5	1610.1	1629.8	1829.8	1805.3	1632.1	1838.5	1993.7
55°	1611.6	1606.1	1603.2	1629.5	1740.2	1754.4	1972.6	1916.3	1721.1	1953.6	2103.0
57.5°	1718.3	1708.1	1736.8	1754.7	1893.4	1915.1	2121.8	2032.2	1799.2	2044.9	2156.2
60°	1856.4	1850.9	1877.2	1909.6	2064.6	2097.5	2291.8	2131.0	1861.9	2090.9	2127.0
62.5°	2062.8	2062.2	2057.3	2126.7	2307.1	2337.4	2486.9	2227.3	1871.7	2056.5	1976.1
65°	2358.8	2348.4	2305.6	2381.4	2608.9	2644.4	2690.1	2281.1	1812.5	1879.8	1663.9
67.5°	2668.4	2667.9	2633.2	2731.5	3042.2	3078.9	2944.2	2269.2	1648.0	1522.8	1181.7
70°	2925.1	2912.7	2956.9	3218.8	3595.8	3638.3	3166.5	2129.6	1312.7	1005.7	702.2
72.5°	2986.7	2987.3	3079.2	3594.6	4127.4	4134.0	3246.6	1726.1	878.5	554.7	351.2
74°	2797.1	2802.0	2944.5	3613.4	4226.5	4196.5	3041.9	1356.6	594.0	362.2	253.2
75°	2553.1	2522.2	2728.3	3488.2	4123.6	4091.3	2802.3	1088.6	453.3	289.4	221.7
77.5°	1365.0	1396.5	1714.5	2603.1	3350.1	3312.8	1900.1	522.1	244.8	201.5	159.6
80°	485.9	535.9	753.3	1362.1	2147.8	2159.4	906.8	239.4	172.3	148.6	112.7
82.5°	198.3	203.8	323.5	604.5	1090.7	1101.1	370.3	142.2	123.1	102.3	67.4
85°	77.5	79.8	143.1	271.7	465.4	495.8	128.1	75.2	75.7	58.7	34.4
87.5°	26.0	29.5	58.7	90.5	158.1	154.9	37.3	22.3	27.2	25.4	10.7
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°	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7	796.7
2.5°	799.3	804.8	808.5	812.6	816.3	817.5	816.6	819.2	819.5	819.8	820.1
5°	803.9	811.4	818.7	822.7	824.4	823.0	818.1	815.5	813.2	811.4	812.0
7.5°	810.3	821.0	827.6	829.4	824.7	818.1	805.9	796.4	790.3	786.3	786.0
10°	820.1	830.5	836.0	831.1	818.4	802.2	783.1	765.2	751.6	747.5	747.3
12.5°	832.5	844.4	844.1	829.6	807.4	778.5	747.5	726.7	708.2	699.0	702.7
15°	848.7	857.7	849.3	823.3	788.0	748.4	710.3	681.9	661.1	651.3	651.9
17.5°	867.5	875.3	853.1	812.0	760.8	710.0	665.7	638.9	622.4	615.1	614.6
20°	890.9	893.2	853.1	792.3	725.9	665.2	623.0	604.2	594.9	591.2	592.3
22.5°	916.1	911.4	848.4	764.6	679.9	618.3	590.0	581.6	577.0	576.4	577.0
25°	944.4	931.4	838.9	727.0	631.9	577.9	561.4	562.8	563.7	563.7	565.7
27.5°	979.1	953.1	823.0	679.6	575.8	540.3	535.7	545.8	550.4	551.3	552.7
30°	1024.8	976.8	796.7	620.4	528.1	506.5	514.6	528.1	533.3	536.5	535.9
32.5°	1079.1	1002.8	761.1	561.1	489.7	482.8	492.6	506.5	512.2	514.0	511.7
35°	1143.0	1032.3	714.3	505.6	456.2	460.2	471.8	476.1	481.3	481.3	482.5
37.5°	1211.8	1056.0	657.1	454.7	430.1	444.9	453.3	449.2	446.9	444.0	445.5
40°	1281.8	1073.6	582.8	404.4	404.1	429.0	431.3	419.7	410.5	407.6	406.1
42.5°	1342.7	1084.6	515.7	365.4	379.6	413.4	415.1	396.6	381.9	373.2	370.3
45°	1414.7	1097.3	450.1	333.0	356.7	400.9	405.3	380.4	358.7	340.5	335.9
47.5°	1513.3	1126.2	398.3	307.9	340.2	393.1	399.2	367.1	338.5	314.8	311.0
50°	1624.6	1165.8	358.2	290.8	327.5	386.2	393.7	353.5	319.7	293.4	290.5
52.5°	1726.6	1187.2	323.5	275.5	315.1	373.5	386.5	343.7	301.2	272.0	269.4
55°	1782.4	1152.5	289.4	260.5	298.0	357.0	376.4	330.1	283.3	260.7	257.0
57.5°	1789.9	1080.8	258.4	244.3	280.1	336.8	357.6	313.6	271.7	252.9	249.8
60°	1731.8	973.9	234.4	231.0	261.9	313.9	336.5	299.2	259.9	244.3	241.1
62.5°	1587.3	857.7	217.7	218.8	243.4	289.9	320.9	285.3	248.6	234.7	231.8
65°	1338.7	707.9	201.5	206.4	226.9	271.2	306.7	273.8	237.3	227.5	224.9
67.5°	929.9	511.1	188.2	193.4	211.3	252.1	290.2	261.3	224.6	219.4	215.4
70°	514.8	314.5	172.6	178.6	195.1	230.7	271.7	242.5	206.1	203.8	198.0
72.5°	270.6	200.3	154.9	161.6	173.2	203.2	243.4	222.0	187.9	178.1	170.6
74°	211.3	164.2	143.1	150.0	157.8	187.0	226.6	207.3	174.9	163.3	157.5
75°	184.1	146.3	133.0	141.9	148.9	176.0	213.6	196.9	167.7	156.7	151.5
77.5°	130.1	109.6	108.7	119.4	123.1	154.4	192.5	179.2	149.5	137.9	133.0
80°	91.3	82.1	86.1	92.8	98.0	136.4	178.6	154.9	122.6	109.0	107.2
82.5°	59.5	53.8	61.6	67.6	69.4	100.6	144.2	117.7	89.3	72.6	67.4
85°	27.5	26.9	35.3	34.4	34.1	49.1	85.6	68.8	51.5	38.4	36.1
87.5°	6.9	6.6	8.7	7.2	8.7	7.5	7.8	2.0	0.3	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)