

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: P594837

Luminaire Tested: **ISS-PA1E-827-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1E-827-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7641 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

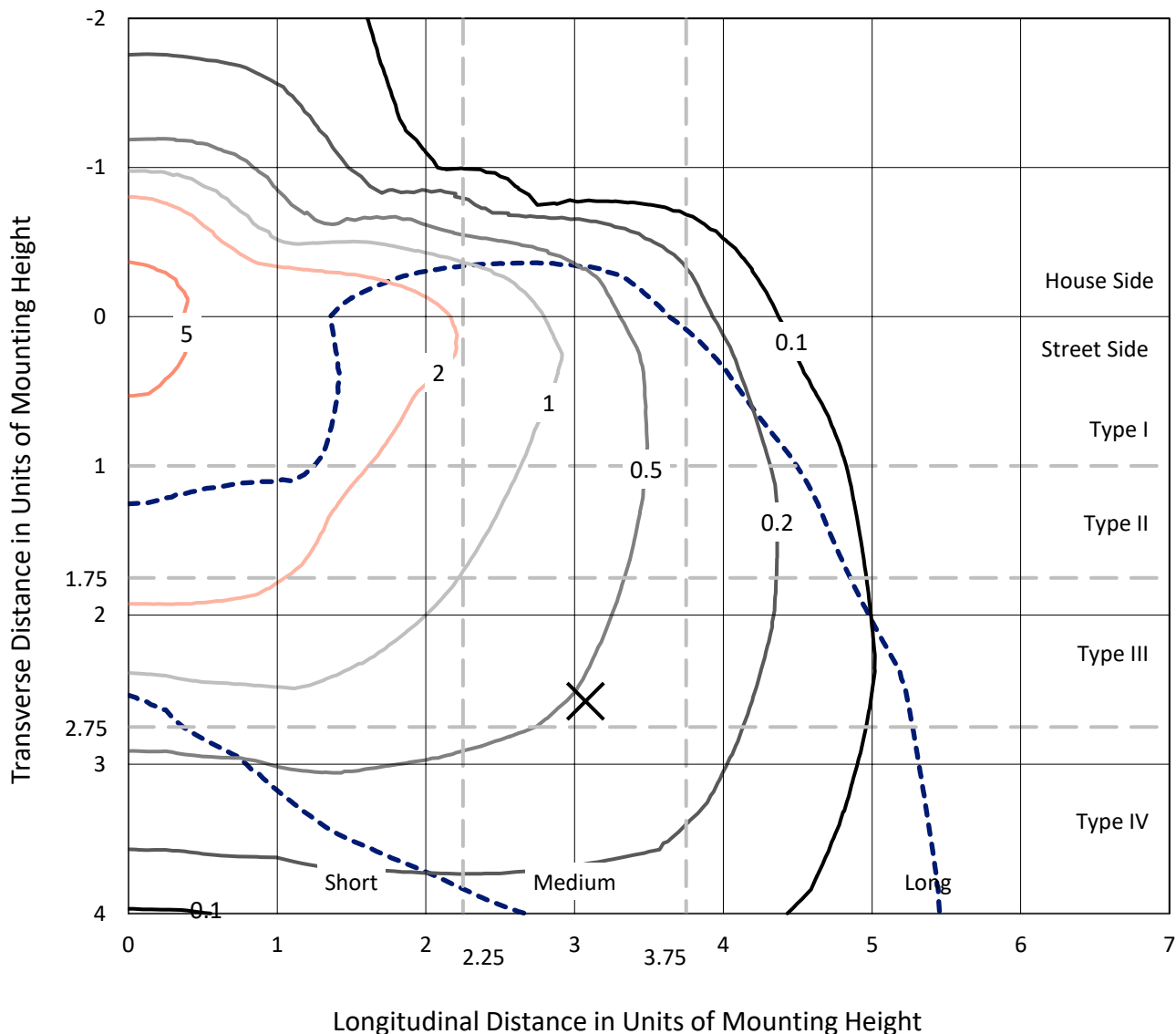
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

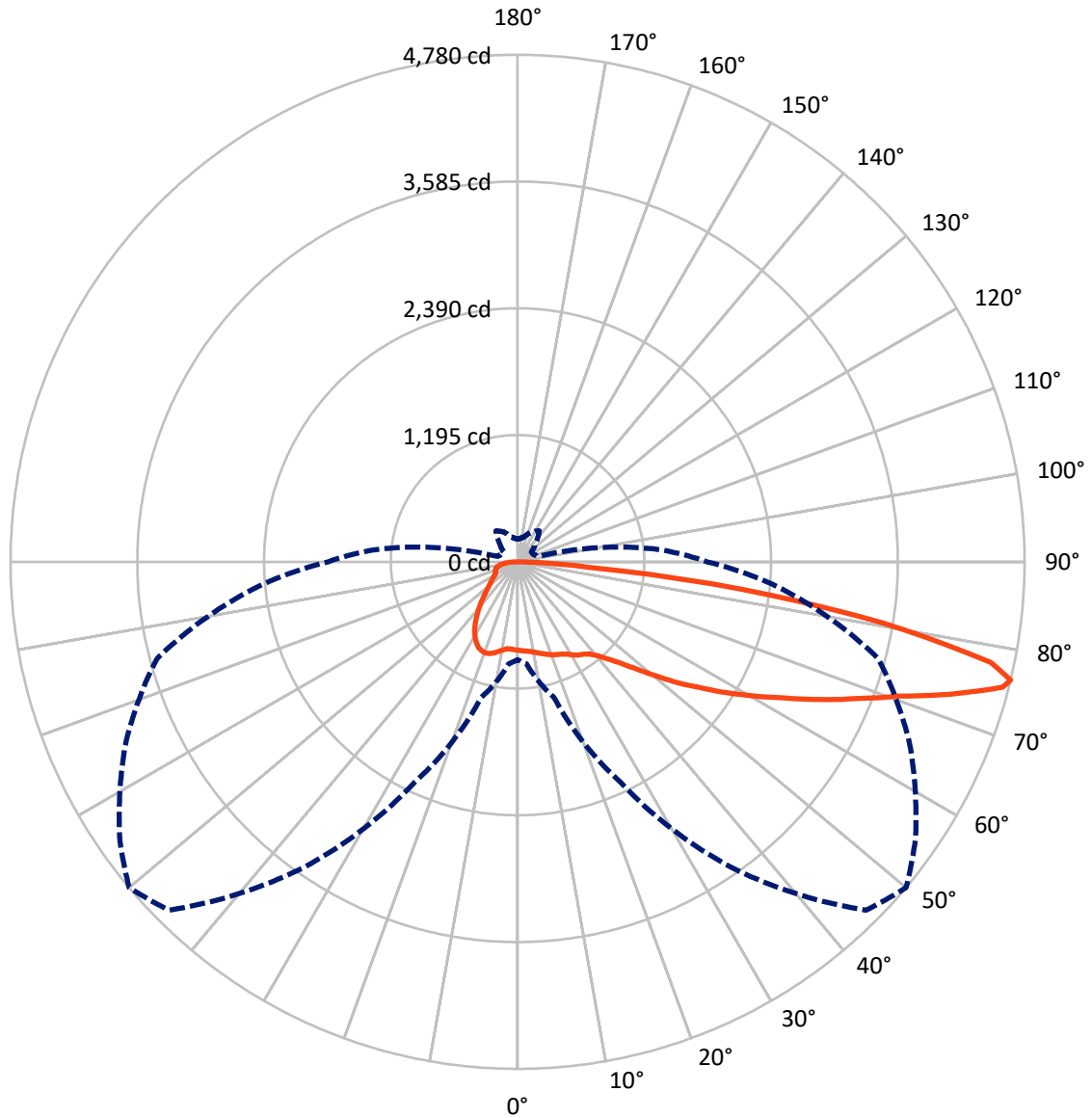
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral      - - - Horizontal Cone Through 76-Deg Vertical

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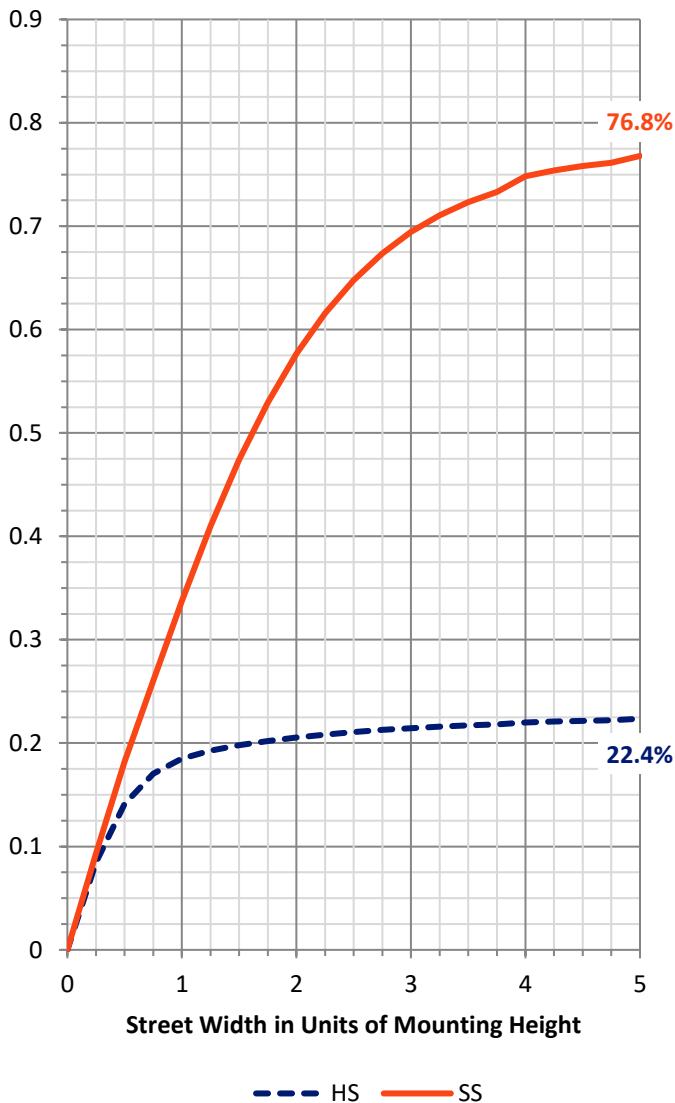
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1748.0	0.0	1748.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5893.0	0.0	5893.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7641.0	0.0	7641.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.9	1.1
10°-20°	254.3	3.3
20°-30°	429.5	5.6
30°-40°	588.7	7.7
40°-50°	867.1	11.3
50°-60°	1363.9	17.9
60°-70°	1963.3	25.7
70°-80°	1785.2	23.4
80°-90°	308.2	4.0
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°	7641.0	100.0
0°-180°	7641.0	100.0

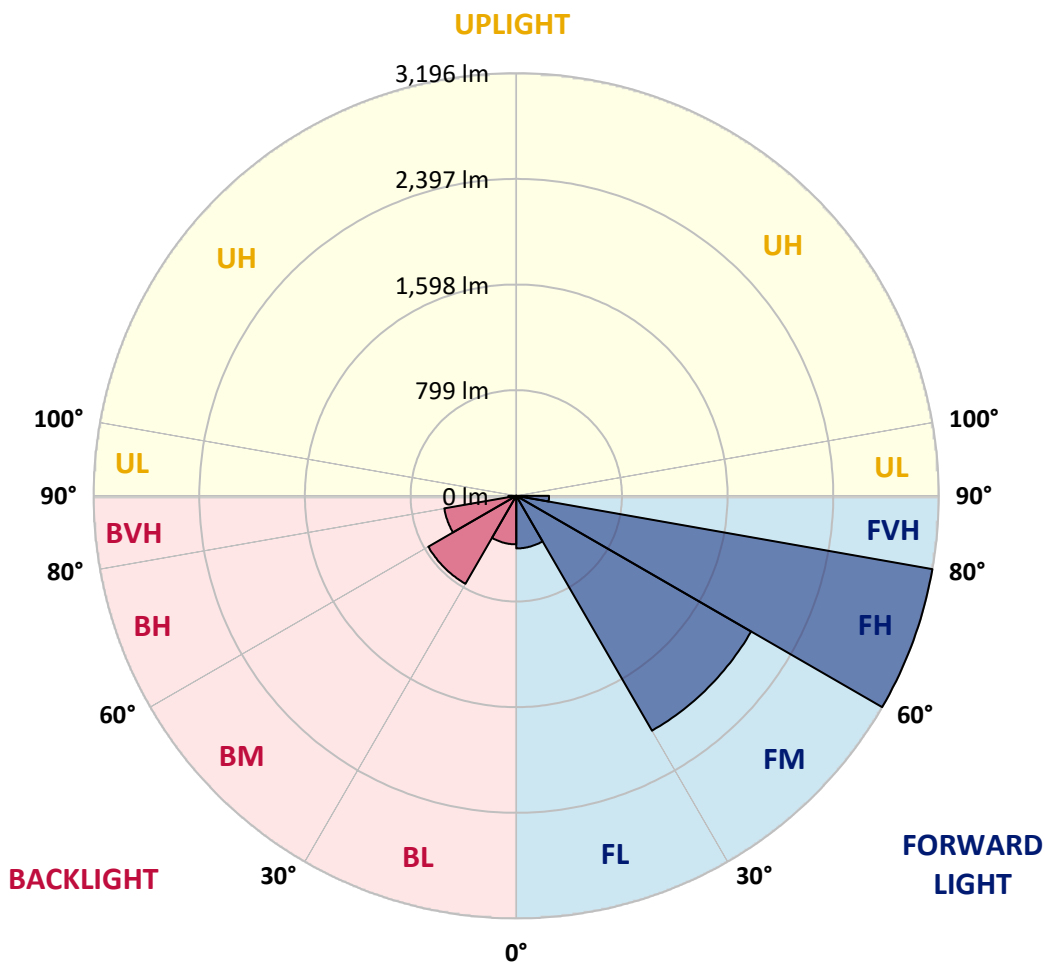


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.7	5.2			
FM (30°-60°)	2051.5	26.8			
FH (60°-80°)	3195.8	41.8			G2/5000
FVH (80°-90°)	248.1	3.2			G3/500
BL (0°-30°)	366.9	4.8	B1/500		
BM (30°-60°)	768.2	10.1	B1/1000		
BH (60°-80°)	552.6	7.2	B2/1000		G2/1000
BVH (80°-90°)	60.1	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-G3**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9
2.5°	851.6	851.6	853.4	849.7	849.7	840.3	840.3	838.5	834.7	832.9	829.1
5°	883.4	883.4	877.8	868.4	862.8	851.6	846.0	842.2	834.7	825.4	816.0
7.5°	917.1	913.3	909.6	894.6	883.4	862.8	853.4	847.8	832.9	819.8	814.1
10°	952.6	947.0	937.7	918.9	902.1	877.8	866.5	859.1	842.2	831.0	817.9
12.5°	973.2	973.2	962.0	939.5	917.1	887.1	881.5	872.2	855.3	840.3	827.2
15°	993.8	995.7	984.4	958.2	932.0	909.6	900.2	894.6	875.9	853.4	836.6
17.5°	1014.4	1012.5	1001.3	971.3	943.3	922.7	917.1	909.6	890.9	870.3	853.4
20°	1029.4	1025.6	1021.9	984.4	956.4	943.3	935.8	930.2	911.5	889.0	866.5
22.5°	1033.1	1036.9	1033.1	988.2	965.7	950.8	948.9	943.3	928.3	907.7	885.3
25°	1035.0	1036.9	1042.5	999.4	978.8	967.6	963.9	960.1	948.9	932.0	902.1
27.5°	1044.3	1046.2	1046.2	1006.9	995.7	988.2	984.4	984.4	978.8	958.2	928.3
30°	1046.2	1048.1	1051.8	1025.6	1021.9	1016.3	1018.1	1016.3	1006.9	984.4	950.8
32.5°	1059.3	1061.2	1070.5	1036.9	1040.6	1046.2	1048.1	1046.2	1027.5	1008.8	980.7
35°	1102.4	1100.5	1108.0	1064.9	1061.2	1063.1	1068.7	1066.8	1059.3	1042.5	1023.8
37.5°	1240.9	1240.9	1220.3	1130.4	1102.4	1098.6	1102.4	1111.7	1113.6	1098.6	1083.6
40°	1484.2	1471.1	1459.8	1265.2	1175.4	1152.9	1164.1	1169.7	1184.7	1184.7	1184.7
42.5°	1735.0	1736.8	1733.1	1474.8	1306.4	1250.2	1252.1	1265.2	1297.0	1302.6	1319.5
45°	1957.7	1970.8	1998.8	1718.1	1499.1	1373.7	1360.6	1373.7	1418.7	1456.1	1499.1
47.5°	2131.7	2116.8	2178.5	1972.6	1720.0	1542.2	1508.5	1512.2	1574.0	1633.9	1701.3
50°	2281.5	2285.2	2313.3	2232.8	1998.8	1733.1	1688.2	1680.7	1768.6	1832.3	1946.4
52.5°	2449.9	2438.7	2479.8	2461.1	2270.2	1967.0	1895.9	1873.4	1968.9	2058.7	2182.3
55°	2530.4	2541.6	2625.8	2672.6	2526.6	2176.6	2098.0	2105.5	2206.6	2302.0	2474.2
57.5°	2672.6	2683.8	2781.2	2878.5	2755.0	2399.4	2330.1	2330.1	2444.3	2551.0	2816.7
60°	2867.3	2869.1	2968.3	3136.8	2955.2	2614.6	2569.7	2567.8	2691.3	2814.9	3221.0
62.5°	2953.3	2975.8	3123.7	3342.6	3217.2	2878.5	2826.1	2841.1	2951.5	3095.6	3672.0
65°	2837.3	2886.0	3194.8	3481.1	3451.2	3153.6	3133.0	3153.6	3221.0	3376.3	4149.3
67.5°	2453.6	2519.1	3063.8	3574.7	3638.3	3471.8	3441.8	3438.1	3481.1	3655.2	4450.6
70°	2255.2	2294.6	2717.5	3610.3	3788.1	3793.7	3793.7	3769.4	3763.7	3891.0	4478.7
72.5°	1856.6	1897.8	2292.7	3411.9	3930.3	4224.1	4267.2	4177.4	4038.9	4012.7	4008.9
75°	1323.2	1353.1	1693.8	2683.8	3748.8	4637.8	4723.9	4549.8	4164.3	3746.9	2923.4
76°	922.7	965.7	1323.2	2292.7	3520.4	4645.3	4780.0	4577.9	4080.0	3518.6	2408.7
77.5°	467.9	482.9	765.5	1540.3	2945.9	4431.9	4562.9	4336.4	3713.2	2842.9	1529.1
80°	177.8	183.4	273.3	561.5	1617.0	3441.8	3492.4	3187.3	2457.4	1214.7	550.2
82.5°	93.6	97.3	153.5	277.0	664.4	1892.2	2135.5	1778.0	963.9	365.0	161.0
85°	46.8	50.5	89.8	168.4	329.4	591.4	685.0	647.6	320.0	138.5	59.9
87.5°	18.7	22.5	44.9	74.9	132.9	116.0	129.1	166.6	102.9	65.5	20.6
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°	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9	832.9
2.5°	829.1	827.2	829.1	827.2	829.1	829.1	831.0	827.2	827.2	831.0	825.4
5°	816.0	814.1	816.0	819.8	821.6	825.4	832.9	831.0	834.7	838.5	840.3
7.5°	810.4	808.5	814.1	816.0	821.6	829.1	840.3	847.8	851.6	859.1	855.3
10°	816.0	816.0	823.5	829.1	838.5	847.8	857.2	864.7	874.0	879.6	877.8
12.5°	825.4	823.5	836.6	844.1	857.2	866.5	874.0	877.8	885.3	892.7	890.9
15°	834.7	836.6	855.3	870.3	885.3	889.0	890.9	887.1	890.9	894.6	894.6
17.5°	853.4	855.3	875.9	892.7	905.8	902.1	892.7	883.4	883.4	885.3	887.1
20°	868.4	872.2	896.5	911.5	918.9	904.0	889.0	877.8	872.2	874.0	872.2
22.5°	885.3	892.7	917.1	924.6	913.3	894.6	875.9	860.9	860.9	862.8	862.8
25°	905.8	909.6	926.4	922.7	902.1	874.0	859.1	853.4	851.6	853.4	855.3
27.5°	924.6	926.4	935.8	909.6	870.3	840.3	834.7	836.6	838.5	840.3	842.2
30°	948.9	952.6	943.3	890.9	831.0	797.3	797.3	808.5	812.3	817.9	816.0
32.5°	978.8	982.6	954.5	866.5	780.4	746.8	748.6	765.5	776.7	780.4	782.3
35°	1029.4	1021.9	962.0	832.9	726.2	685.0	686.9	707.5	722.4	728.0	724.3
37.5°	1091.1	1089.3	973.2	789.8	658.8	621.4	623.2	632.6	647.6	649.4	651.3
40°	1194.1	1179.1	991.9	733.7	591.4	555.9	552.1	557.7	555.9	559.6	561.5
42.5°	1341.9	1302.6	1016.3	670.0	531.5	494.1	490.4	481.0	469.8	458.5	452.9
45°	1516.0	1454.2	1046.2	604.5	469.8	436.1	426.7	415.5	393.0	368.7	361.2
47.5°	1740.6	1622.7	1079.9	539.0	411.7	385.5	378.1	361.2	335.0	306.9	301.3
50°	1970.8	1821.0	1113.6	484.7	365.0	350.0	342.5	325.7	292.0	265.8	260.1
52.5°	2238.4	2017.6	1149.1	436.1	323.8	323.8	318.2	292.0	260.1	235.8	232.1
55°	2547.2	2219.7	1205.3	389.3	293.8	301.3	293.8	267.6	237.7	220.8	219.0
57.5°	2915.9	2476.1	1276.4	338.8	267.6	273.3	273.3	254.5	233.9	222.7	220.8
60°	3286.5	2736.2	1321.3	301.3	247.0	252.7	263.9	254.5	241.4	235.8	233.9
62.5°	3642.1	3002.0	1244.6	269.5	226.5	243.3	271.4	273.3	260.1	262.0	262.0
65°	3907.9	3204.1	1006.9	241.4	213.4	248.9	293.8	295.7	273.3	267.6	265.8
67.5°	3999.6	3260.3	677.5	222.7	205.9	252.7	320.0	312.6	273.3	262.0	256.4
70°	3825.5	3054.4	439.8	205.9	194.6	248.9	340.6	321.9	271.4	254.5	247.0
72.5°	3207.9	2605.2	293.8	190.9	183.4	245.2	353.7	321.9	265.8	241.4	233.9
75°	2227.2	1779.9	219.0	172.2	166.6	239.6	357.5	316.3	252.7	226.5	220.8
76°	1787.4	1334.4	198.4	164.7	159.1	235.8	355.6	310.7	243.3	219.0	213.4
77.5°	1128.6	767.3	166.6	151.6	147.9	228.3	348.1	297.6	230.2	205.9	200.3
80°	394.9	280.7	127.3	123.5	125.4	211.5	327.5	271.4	204.0	181.5	174.1
82.5°	157.2	129.1	95.5	95.5	99.2	181.5	295.7	239.6	177.8	149.7	138.5
85°	61.8	56.1	67.4	67.4	71.1	147.9	247.0	187.2	121.7	93.6	89.8
87.5°	18.7	26.2	29.9	31.8	33.7	74.9	140.4	82.3	54.3	39.3	31.8
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)