

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: P595755

Luminaire Tested: **ISW-PA1D-830-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595755  
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: ISW-PA1D-830-U-T4W  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6550 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

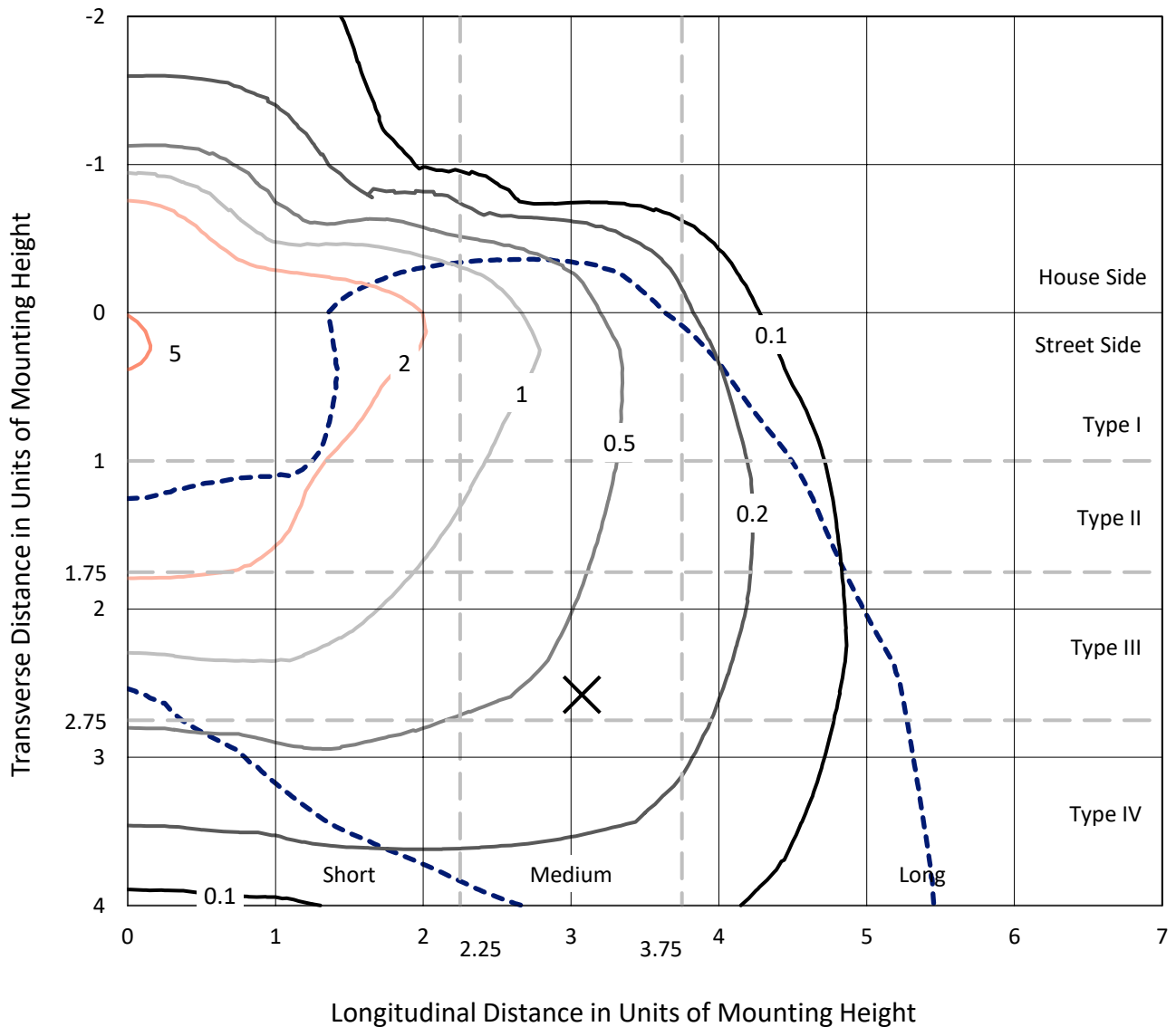
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

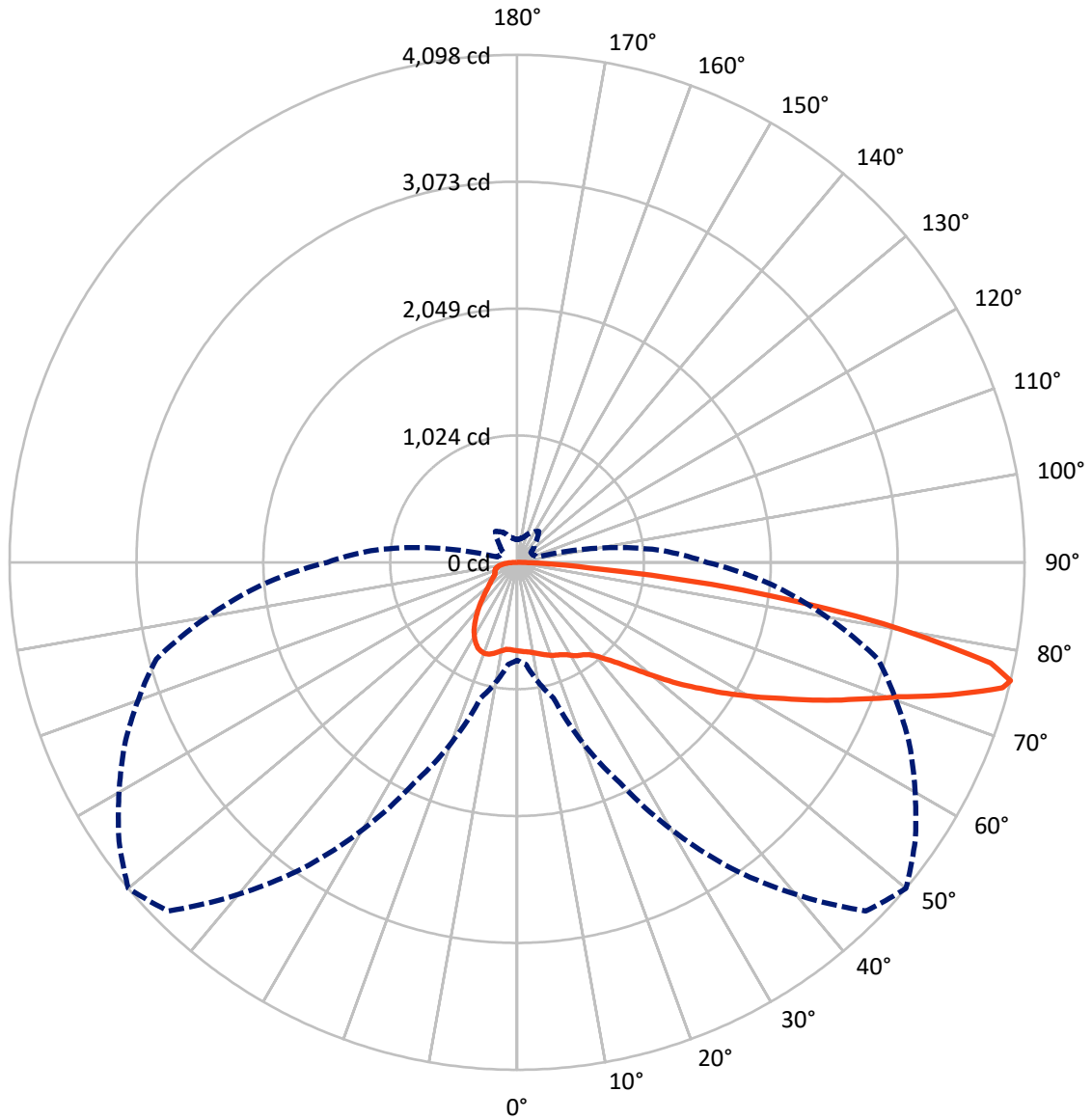
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.4 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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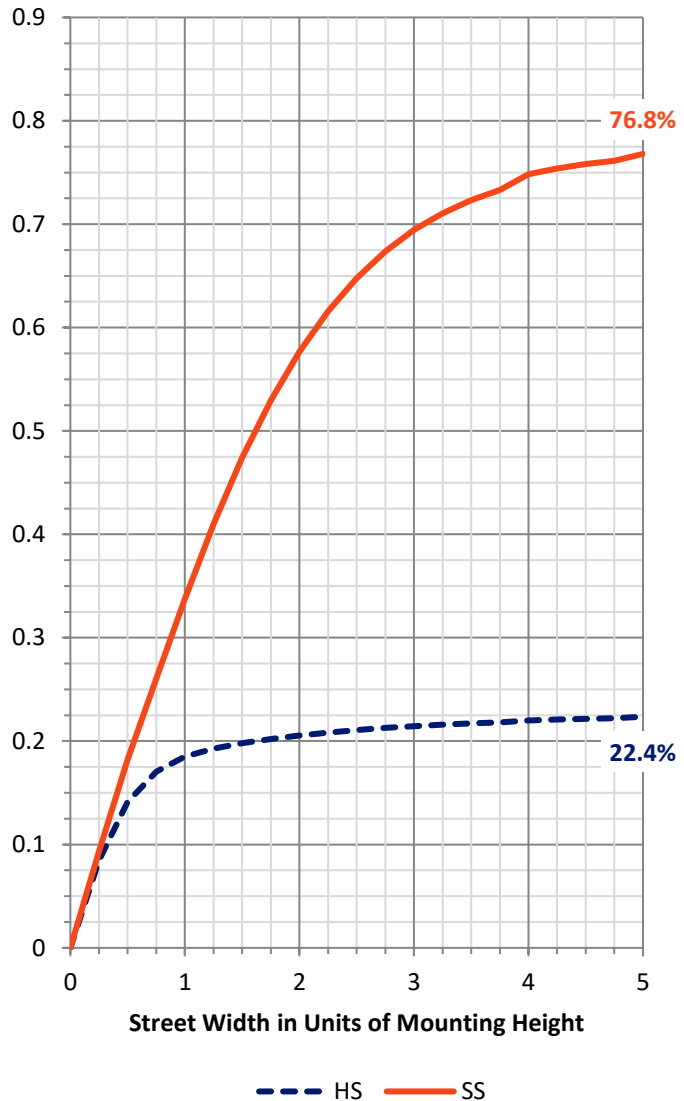
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1498.4	0.0	1498.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5051.6	0.0	5051.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	6550.0	0.0	6550.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	1.1
10°-20°	218.0	3.3
20°-30°	368.2	5.6
30°-40°	504.7	7.7
40°-50°	743.3	11.3
50°-60°	1169.2	17.9
60°-70°	1683.0	25.7
70°-80°	1530.3	23.4
80°-90°	264.2	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°	6550.0	100.0
0°-180°	6550.0	100.0

**Coefficient of Utilization**

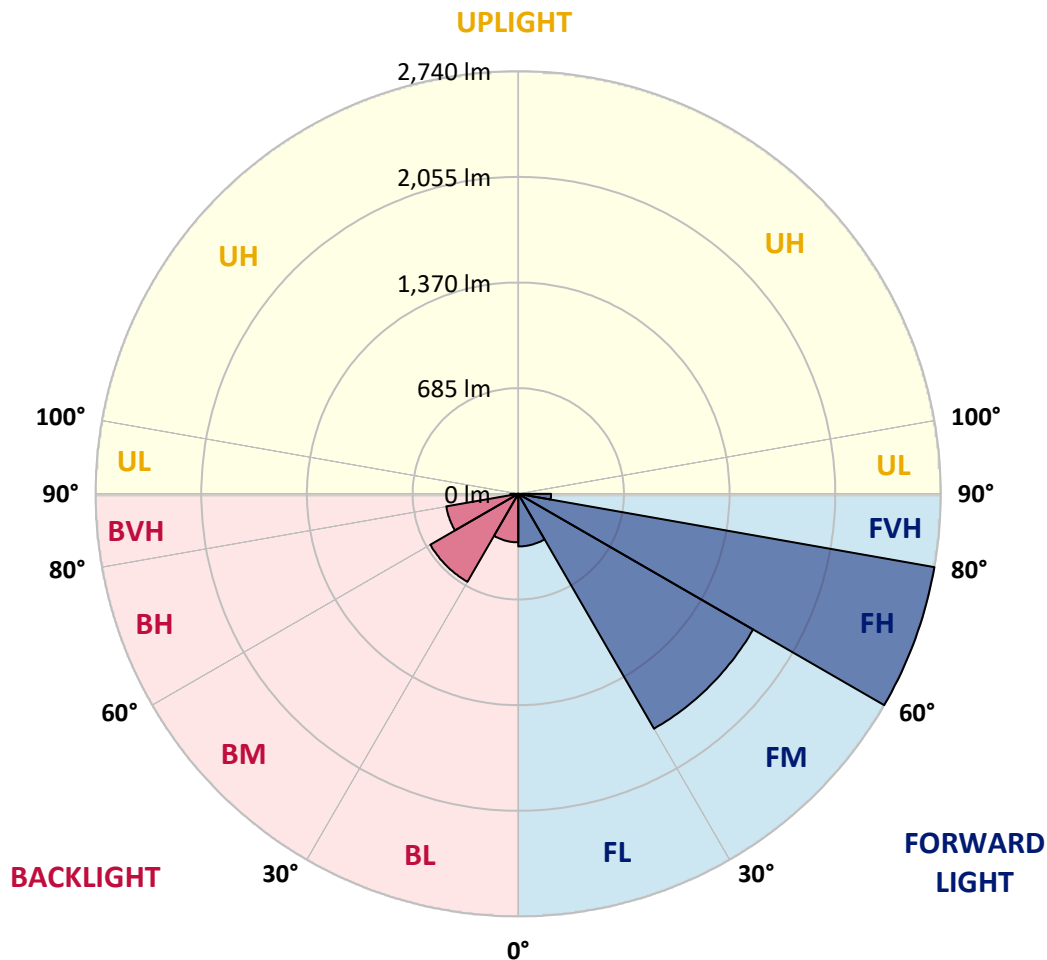


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	340.9	5.2			
FM (30°-60°)	1758.6	26.8			
FH (60°-80°)	2739.5	41.8			G2/5000
FVH (80°-90°)	212.6	3.2			G2/225
BL (0°-30°)	314.6	4.8	B1/500		
BM (30°-60°)	658.6	10.1	B1/1000		
BH (60°-80°)	473.7	7.2	B1/500		G1/500
BVH (80°-90°)	51.5	0.8			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9
2.5°	730.0	730.0	731.6	728.4	728.4	720.4	720.4	718.7	715.5	713.9	710.7
5°	757.3	757.3	752.4	744.4	739.6	730.0	725.2	722.0	715.5	707.5	699.5
7.5°	786.1	782.9	779.7	766.9	757.3	739.6	731.6	726.8	713.9	702.7	697.9
10°	816.6	811.8	803.8	787.7	773.3	752.4	742.8	736.4	722.0	712.3	701.1
12.5°	834.3	834.3	824.6	805.4	786.1	760.5	755.6	747.6	733.2	720.4	709.1
15°	851.9	853.5	843.9	821.4	799.0	779.7	771.7	766.9	750.8	731.6	717.1
17.5°	869.6	868.0	858.3	832.7	808.6	790.9	786.1	779.7	763.7	746.0	731.6
20°	882.4	879.2	876.0	843.9	819.8	808.6	802.2	797.4	781.3	762.1	742.8
22.5°	885.6	888.8	885.6	847.1	827.8	815.0	813.4	808.6	795.8	778.1	758.9
25°	887.2	888.8	893.6	856.7	839.1	829.4	826.2	823.0	813.4	799.0	773.3
27.5°	895.2	896.8	896.8	863.1	853.5	847.1	843.9	843.9	839.1	821.4	795.8
30°	896.8	898.4	901.6	879.2	876.0	871.2	872.8	871.2	863.1	843.9	815.0
32.5°	908.1	909.7	917.7	888.8	892.0	896.8	898.4	896.8	880.8	864.7	840.7
35°	945.0	943.4	949.8	912.9	909.7	911.3	916.1	914.5	908.1	893.6	877.6
37.5°	1063.7	1063.7	1046.0	969.0	945.0	941.8	945.0	953.0	954.6	941.8	928.9
40°	1272.2	1261.0	1251.4	1084.5	1007.5	988.3	997.9	1002.7	1015.6	1015.6	1015.6
42.5°	1487.2	1488.8	1485.6	1264.2	1119.8	1071.7	1073.3	1084.5	1111.8	1116.6	1131.1
45°	1678.1	1689.4	1713.4	1472.8	1285.1	1177.6	1166.4	1177.6	1216.1	1248.2	1285.1
47.5°	1827.4	1814.5	1867.5	1691.0	1474.4	1322.0	1293.1	1296.3	1349.3	1400.6	1458.4
50°	1955.7	1958.9	1983.0	1914.0	1713.4	1485.6	1447.1	1440.7	1516.1	1570.7	1668.5
52.5°	2100.1	2090.5	2125.8	2109.7	1946.1	1686.2	1625.2	1606.0	1687.8	1764.8	1870.7
55°	2169.1	2178.7	2250.9	2291.0	2165.9	1865.9	1798.5	1804.9	1891.5	1973.3	2120.9
57.5°	2291.0	2300.6	2384.1	2467.5	2361.6	2056.8	1997.4	1997.4	2095.3	2186.7	2414.5
60°	2457.9	2459.5	2544.5	2688.9	2533.3	2241.3	2202.8	2201.2	2307.1	2412.9	2761.1
62.5°	2531.7	2550.9	2677.7	2865.4	2757.9	2467.5	2422.6	2435.4	2530.1	2653.6	3147.7
65°	2432.2	2473.9	2738.6	2984.1	2958.4	2703.3	2685.7	2703.3	2761.1	2894.2	3556.8
67.5°	2103.3	2159.5	2626.3	3064.3	3118.9	2976.1	2950.4	2947.2	2984.1	3133.3	3815.1
70°	1933.2	1966.9	2329.5	3094.8	3247.2	3252.0	3252.0	3231.2	3226.3	3335.4	3839.2
72.5°	1591.5	1626.8	1965.3	2924.7	3369.1	3621.0	3657.9	3580.9	3462.2	3439.7	3436.5
75°	1134.3	1159.9	1451.9	2300.6	3213.5	3975.6	4049.4	3900.2	3569.7	3211.9	2506.0
76°	790.9	827.8	1134.3	1965.3	3017.8	3982.0	4097.5	3924.2	3497.5	3016.2	2064.8
77.5°	401.1	413.9	656.2	1320.4	2525.2	3799.1	3911.4	3717.3	3183.0	2437.0	1310.8
80°	152.4	157.2	234.2	481.3	1386.2	2950.4	2993.7	2732.2	2106.5	1041.2	471.7
82.5°	80.2	83.4	131.6	237.4	569.5	1622.0	1830.6	1524.1	826.2	312.8	138.0
85°	40.1	43.3	77.0	144.4	282.4	507.0	587.2	555.1	274.3	118.7	51.3
87.5°	16.0	19.3	38.5	64.2	113.9	99.5	110.7	142.8	88.2	56.2	17.6
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°	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9	713.9
2.5°	710.7	709.1	710.7	709.1	710.7	710.7	712.3	709.1	709.1	712.3	707.5
5°	699.5	697.9	699.5	702.7	704.3	707.5	713.9	712.3	715.5	718.7	720.4
7.5°	694.7	693.1	697.9	699.5	704.3	710.7	720.4	726.8	730.0	736.4	733.2
10°	699.5	699.5	705.9	710.7	718.7	726.8	734.8	741.2	749.2	754.0	752.4
12.5°	707.5	705.9	717.1	723.6	734.8	742.8	749.2	752.4	758.9	765.3	763.7
15°	715.5	717.1	733.2	746.0	758.9	762.1	763.7	760.5	763.7	766.9	766.9
17.5°	731.6	733.2	750.8	765.3	776.5	773.3	765.3	757.3	757.3	758.9	760.5
20°	744.4	747.6	768.5	781.3	787.7	774.9	762.1	752.4	747.6	749.2	747.6
22.5°	758.9	765.3	786.1	792.5	782.9	766.9	750.8	738.0	738.0	739.6	739.6
25°	776.5	779.7	794.2	790.9	773.3	749.2	736.4	731.6	730.0	731.6	733.2
27.5°	792.5	794.2	802.2	779.7	746.0	720.4	715.5	717.1	718.7	720.4	722.0
30°	813.4	816.6	808.6	763.7	712.3	683.5	683.5	693.1	696.3	701.1	699.5
32.5°	839.1	842.3	818.2	742.8	669.0	640.1	641.7	656.2	665.8	669.0	670.6
35°	882.4	876.0	824.6	713.9	622.5	587.2	588.8	606.4	619.3	624.1	620.9
37.5°	935.3	933.7	834.3	677.0	564.7	532.6	534.2	542.3	555.1	556.7	558.3
40°	1023.6	1010.7	850.3	628.9	507.0	476.5	473.3	478.1	476.5	479.7	481.3
42.5°	1150.3	1116.6	871.2	574.4	455.6	423.5	420.3	412.3	402.7	393.1	388.3
45°	1299.5	1246.6	896.8	518.2	402.7	373.8	365.8	356.2	336.9	316.1	309.6
47.5°	1492.0	1391.0	925.7	462.1	353.0	330.5	324.1	309.6	287.2	263.1	258.3
50°	1689.4	1561.0	954.6	415.5	312.8	300.0	293.6	279.2	250.3	227.8	223.0
52.5°	1918.8	1729.5	985.1	373.8	277.6	277.6	272.7	250.3	223.0	202.1	198.9
55°	2183.5	1902.8	1033.2	333.7	251.9	258.3	251.9	229.4	203.8	189.3	187.7
57.5°	2499.6	2122.6	1094.2	290.4	229.4	234.2	234.2	218.2	200.5	190.9	189.3
60°	2817.2	2345.6	1132.7	258.3	211.8	216.6	226.2	218.2	207.0	202.1	200.5
62.5°	3122.1	2573.4	1066.9	231.0	194.1	208.6	232.6	234.2	223.0	224.6	224.6
65°	3349.9	2746.6	863.1	207.0	182.9	213.4	251.9	253.5	234.2	229.4	227.8
67.5°	3428.5	2794.8	580.8	190.9	176.5	216.6	274.3	267.9	234.2	224.6	219.8
70°	3279.3	2618.3	377.0	176.5	166.9	213.4	292.0	275.9	232.6	218.2	211.8
72.5°	2749.9	2233.3	251.9	163.6	157.2	210.2	303.2	275.9	227.8	207.0	200.5
75°	1909.2	1525.7	187.7	147.6	142.8	205.4	306.4	271.1	216.6	194.1	189.3
76°	1532.2	1143.9	170.1	141.2	136.4	202.1	304.8	266.3	208.6	187.7	182.9
77.5°	967.4	657.8	142.8	130.0	126.7	195.7	298.4	255.1	197.3	176.5	171.7
80°	338.5	240.7	109.1	105.9	107.5	181.3	280.8	232.6	174.9	155.6	149.2
82.5°	134.8	110.7	81.8	81.8	85.0	155.6	253.5	205.4	152.4	128.3	118.7
85°	52.9	48.1	57.8	57.8	61.0	126.7	211.8	160.4	104.3	80.2	77.0
87.5°	16.0	22.5	25.7	27.3	28.9	64.2	120.3	70.6	46.5	33.7	27.3
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)