

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: P595421

Luminaire Tested: **IST-PA1F-830-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1F-830-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6424 lumens  
Efficiency: N/A  
Efficacy: 68.7 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

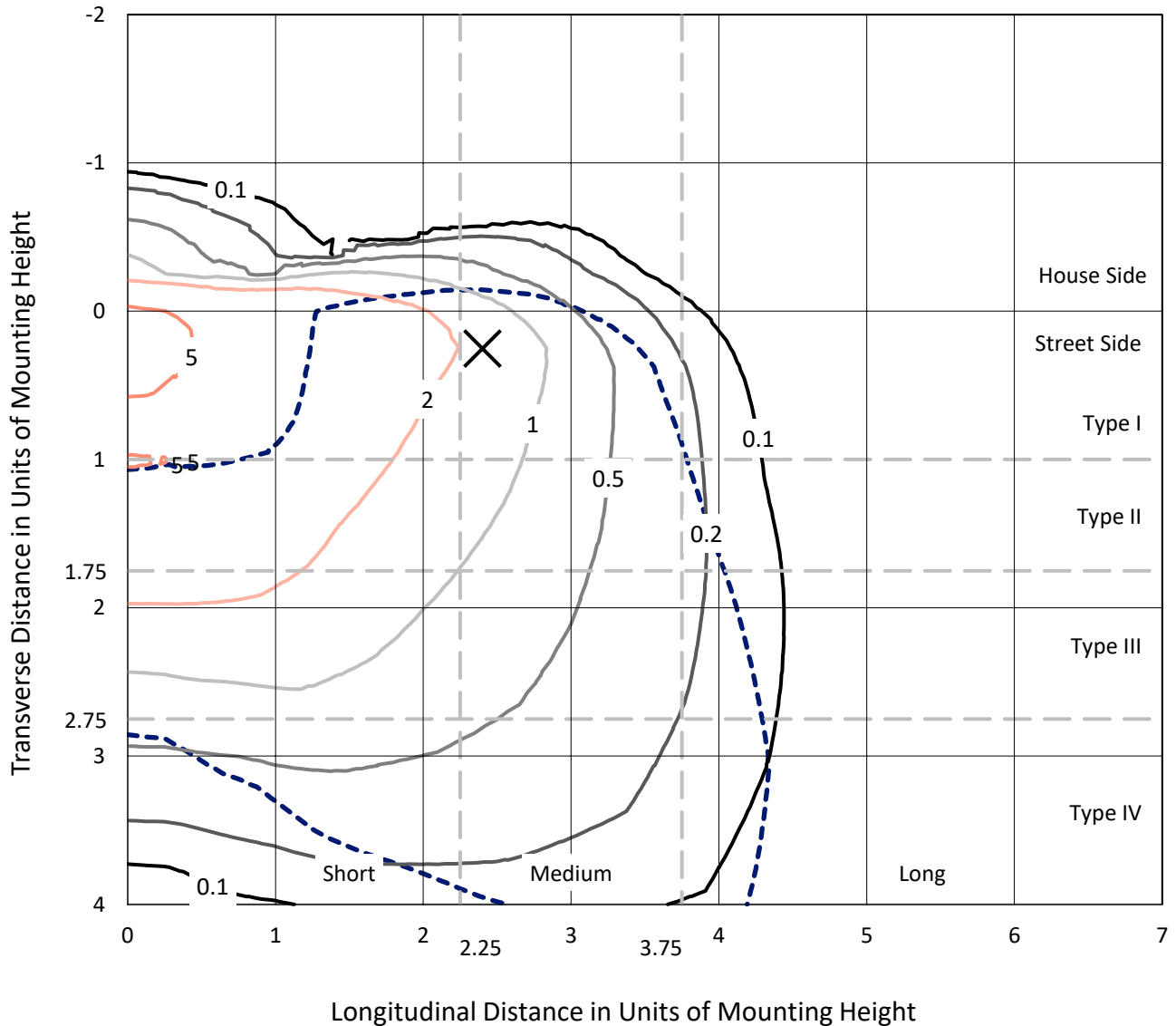
Input Watts (W): 93.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

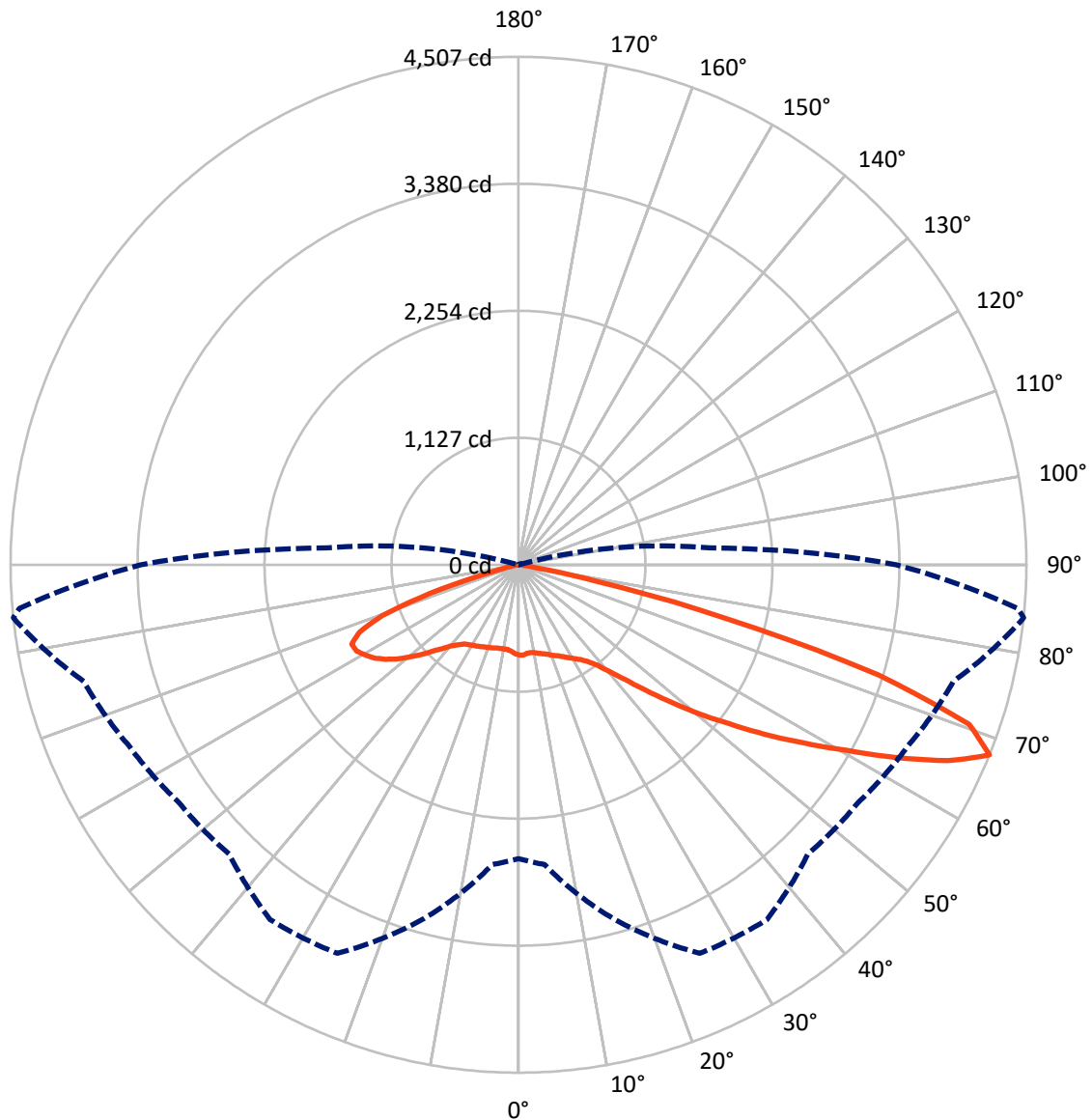
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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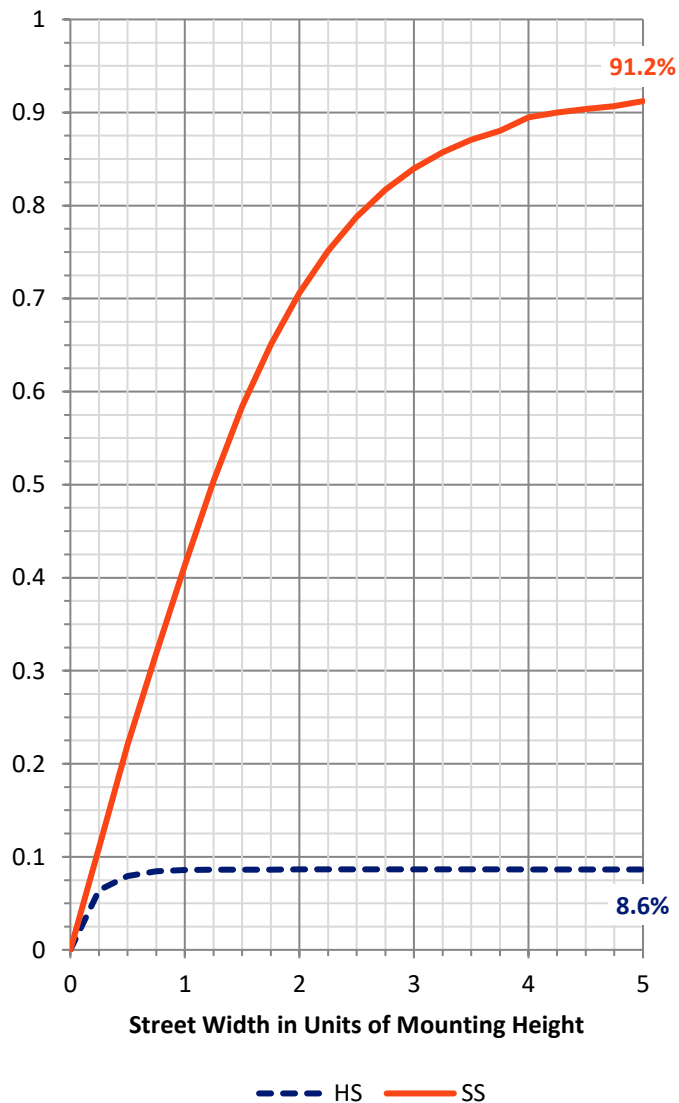
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	559.3	0.0	559.3
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	5864.7	0.0	5864.7
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	6424.0	0.0	6424.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	1.1
10°-20°	187.7	2.9
20°-30°	300.6	4.7
30°-40°	432.6	6.7
40°-50°	742.6	11.6
50°-60°	1297.4	20.2
60°-70°	1857.9	28.9
70°-80°	1396.4	21.7
80°-90°	137.1	2.1
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°	6424.0	100.0
0°-180°	6424.0	100.0

**Coefficient of Utilization**

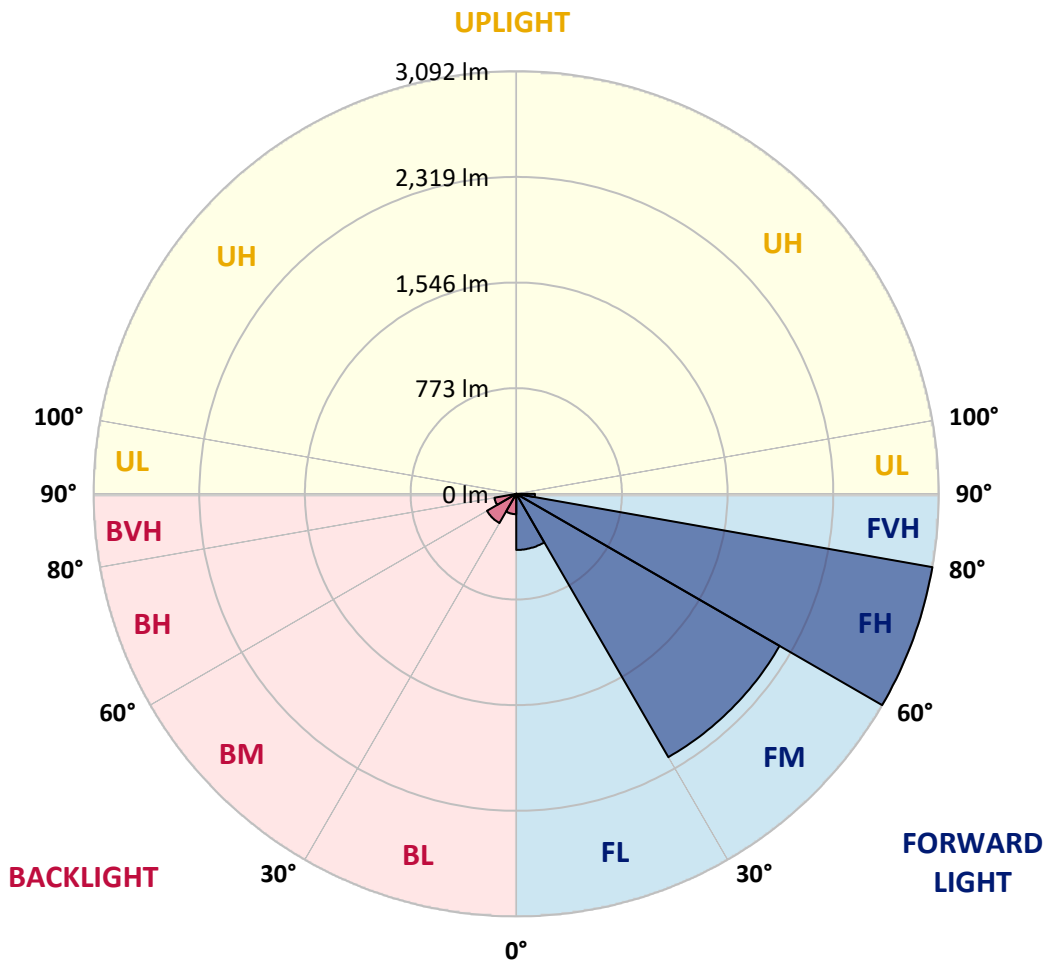


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.7	6.4			
FM (30°-60°)	2225.2	34.6			
FH (60°-80°)	3092.2	48.1			G2/5000
FVH (80°-90°)	136.6	2.1			G2/225
BL (0°-30°)	149.4	2.3	B1/500		
BM (30°-60°)	247.3	3.9	B1/1000		
BH (60°-80°)	162.2	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
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°	55°	65°	75°	84°	85°
0°	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4
2.5°	845.9	850.2	852.4	841.6	841.6	832.9	819.9	815.5	809.0	802.5	800.4
5°	889.3	895.8	893.6	880.6	874.1	856.7	839.4	822.0	804.7	789.5	789.5
7.5°	939.2	941.3	934.8	913.1	900.1	876.3	850.2	830.7	809.0	787.3	783.0
10°	982.5	980.4	971.7	950.0	926.2	895.8	867.6	845.9	819.9	793.8	791.7
12.5°	1012.9	1015.1	1004.2	973.9	950.0	915.3	887.1	865.4	835.1	806.9	800.4
15°	1038.9	1045.4	1032.4	1002.1	967.4	937.0	915.3	887.1	852.4	819.9	815.5
17.5°	1062.8	1065.0	1054.1	1019.4	986.9	960.9	937.0	911.0	876.3	835.1	830.7
20°	1075.8	1082.3	1075.8	1032.4	1002.1	982.5	963.0	937.0	898.0	858.9	854.6
22.5°	1084.5	1091.0	1088.8	1041.1	1015.1	999.9	982.5	958.7	921.8	876.3	871.9
25°	1088.8	1093.2	1097.5	1049.8	1028.1	1021.6	1006.4	984.7	950.0	902.3	898.0
27.5°	1095.3	1099.7	1104.0	1060.6	1052.0	1045.4	1041.1	1023.8	982.5	932.7	926.2
30°	1106.2	1112.7	1117.0	1080.2	1080.2	1086.7	1086.7	1062.8	1017.3	965.2	960.9
32.5°	1119.2	1121.4	1130.0	1099.7	1110.5	1125.7	1121.4	1097.5	1049.8	1002.1	995.6
35°	1153.9	1153.9	1169.1	1130.0	1143.1	1156.1	1160.4	1143.1	1099.7	1052.0	1049.8
37.5°	1238.5	1238.5	1251.5	1188.6	1186.4	1199.4	1214.6	1214.6	1171.2	1127.9	1123.5
40°	1429.4	1429.4	1429.4	1284.0	1260.2	1275.4	1299.2	1312.2	1275.4	1245.0	1245.0
42.5°	1748.2	1750.4	1717.8	1459.7	1357.8	1383.8	1409.8	1438.0	1418.5	1396.8	1392.5
45°	2077.9	2067.0	2062.7	1717.8	1531.3	1518.3	1550.8	1598.5	1605.0	1592.0	1600.7
47.5°	2303.5	2314.3	2320.8	2038.8	1774.2	1685.3	1715.7	1782.9	1821.9	1819.8	1832.8
50°	2522.5	2529.0	2535.5	2392.4	2095.2	1895.7	1915.2	2006.3	2060.5	2077.9	2086.6
52.5°	2713.4	2696.0	2724.2	2704.7	2435.8	2136.4	2136.4	2240.6	2338.2	2344.7	2342.5
55°	2769.8	2780.6	2865.2	2923.8	2785.0	2431.4	2388.0	2498.7	2602.8	2657.0	2657.0
57.5°	2895.6	2906.4	3008.4	3140.7	3038.7	2722.1	2657.0	2765.4	2878.2	2982.3	2997.5
60°	3060.4	3062.6	3171.0	3372.8	3231.8	2984.5	2930.3	3053.9	3166.7	3344.6	3394.5
62.5°	3149.4	3158.0	3307.7	3572.3	3474.7	3214.4	3201.4	3314.2	3459.5	3771.9	3817.4
65°	3012.7	3069.1	3394.5	3691.6	3672.1	3429.2	3474.7	3565.8	3732.8	4190.5	4233.8
67.5°	2607.1	2670.0	3251.3	3804.4	3843.4	3630.9	3678.6	3810.9	3995.3	4507.1	4446.4
70°	2401.1	2453.1	2904.3	3867.3	3986.6	3856.4	3878.1	4001.8	4056.0	4242.5	4177.5
72.5°	1819.8	1874.0	2457.5	3652.6	4110.2	4092.9	4038.6	3936.7	3615.7	3338.1	3179.7
75°	804.7	867.6	1635.4	2854.4	3804.4	4227.3	3941.0	3370.6	2596.3	1895.7	1756.9
77.5°	355.7	392.6	633.3	1585.5	2858.7	3659.1	3116.8	2247.1	1303.6	704.9	655.0
80°	115.0	119.3	199.5	555.3	1461.9	2422.7	1908.7	1080.2	401.3	164.8	154.0
82.5°	45.5	49.9	95.4	234.2	605.1	963.0	937.0	390.4	117.1	43.4	43.4
85°	13.0	15.2	47.7	123.6	214.7	271.1	331.9	130.1	62.9	13.0	13.0
87.5°	4.3	4.3	17.4	39.0	41.2	28.2	62.9	49.9	39.0	4.3	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4	800.4
2.5°	796.0	791.7	780.8	772.2	767.8	761.3	752.6	748.3	748.3	746.1	739.6
5°	780.8	774.3	754.8	741.8	730.9	707.1	689.7	668.0	646.4	639.8	646.4
7.5°	774.3	761.3	735.3	709.3	663.7	600.8	559.6	514.0	498.9	479.3	481.5
10°	776.5	761.3	724.4	665.9	576.9	483.7	418.6	357.9	327.5	312.3	314.5
12.5°	783.0	765.6	713.6	607.3	479.3	366.6	266.8	219.1	210.4	210.4	210.4
15°	796.0	770.0	696.2	537.9	375.2	242.9	188.7	184.4	190.9	197.4	199.5
17.5°	809.0	783.0	670.2	466.3	273.3	182.2	175.7	175.7	182.2	188.7	190.9
20°	824.2	796.0	633.3	390.4	195.2	171.3	169.2	167.0	171.3	177.9	180.0
22.5°	848.1	809.0	590.0	301.5	169.2	164.8	160.5	158.3	160.5	167.0	169.2
25°	869.8	826.4	544.4	223.4	158.3	154.0	151.8	149.7	149.7	154.0	156.2
27.5°	895.8	845.9	494.5	167.0	145.3	143.2	141.0	138.8	136.6	141.0	143.2
30°	928.3	863.3	440.3	141.0	132.3	130.1	128.0	125.8	123.6	125.8	128.0
32.5°	969.5	887.1	377.4	128.0	121.5	115.0	112.8	112.8	110.6	110.6	112.8
35°	1023.8	913.1	310.2	119.3	110.6	104.1	97.6	95.4	95.4	95.4	97.6
37.5°	1104.0	960.9	245.1	110.6	101.9	91.1	84.6	78.1	78.1	78.1	78.1
40°	1214.6	1012.9	190.9	104.1	95.4	80.3	71.6	62.9	58.6	56.4	58.6
42.5°	1386.0	1091.0	147.5	95.4	91.1	71.6	58.6	47.7	39.0	36.9	39.0
45°	1574.7	1175.6	117.1	88.9	82.4	60.7	45.5	32.5	23.9	21.7	23.9
47.5°	1813.3	1281.9	99.8	80.3	71.6	49.9	32.5	17.4	10.8	13.0	13.0
50°	2043.2	1386.0	91.1	73.7	62.9	41.2	19.5	8.7	4.3	6.5	6.5
52.5°	2296.9	1496.6	84.6	65.1	54.2	30.4	10.8	2.2	0.0	2.2	2.2
55°	2552.9	1596.4	78.1	58.6	43.4	21.7	4.3	0.0	0.0	0.0	2.2
57.5°	2830.5	1681.0	71.6	49.9	32.5	13.0	2.2	0.0	0.0	0.0	0.0
60°	3062.6	1746.0	65.1	43.4	21.7	6.5	0.0	0.0	0.0	0.0	0.0
62.5°	3275.2	1804.6	49.9	32.5	13.0	4.3	0.0	0.0	0.0	0.0	0.0
65°	3416.1	1817.6	34.7	21.7	8.7	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	3353.2	1704.8	21.7	15.2	4.3	2.2	0.0	0.0	0.0	0.0	0.0
70°	2947.6	1431.5	15.2	8.7	2.2	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	2062.7	924.0	13.0	6.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
75°	1088.8	334.0	8.7	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	386.1	73.7	4.3	2.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0
80°	84.6	15.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)