

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: P595302

Luminaire Tested: **IST-PA1E-740-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1E-740-U-T3-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7467 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

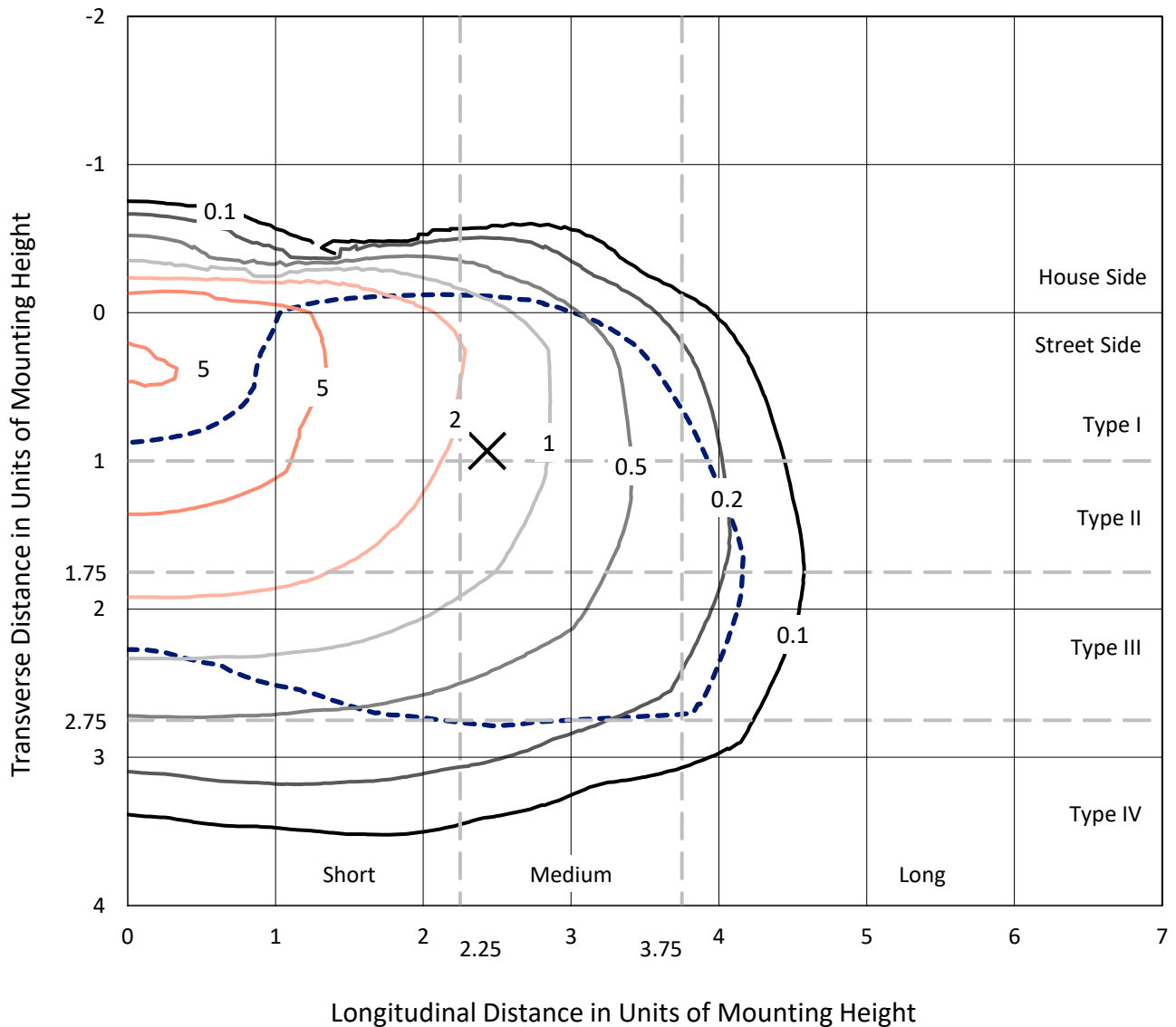
Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

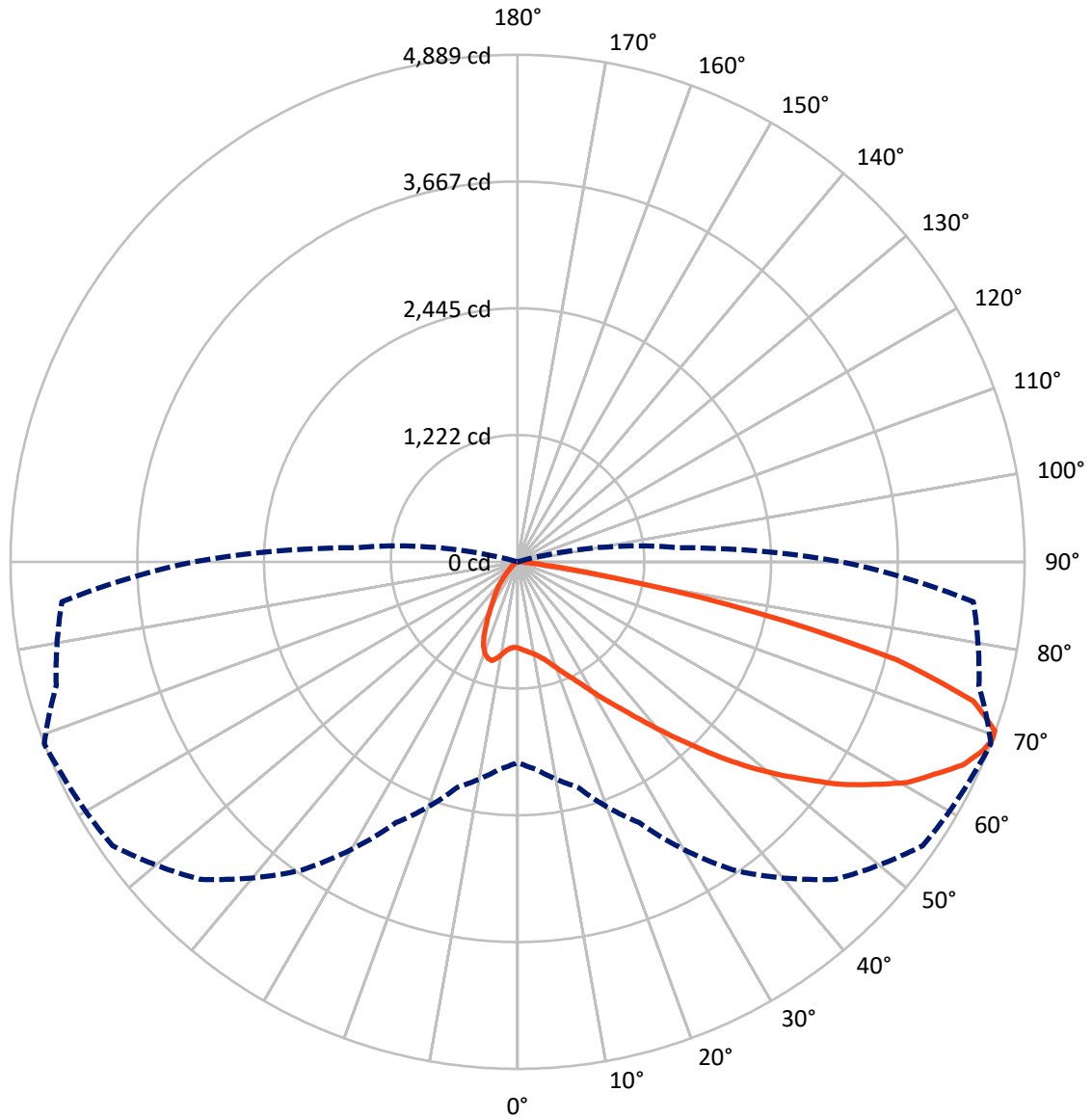
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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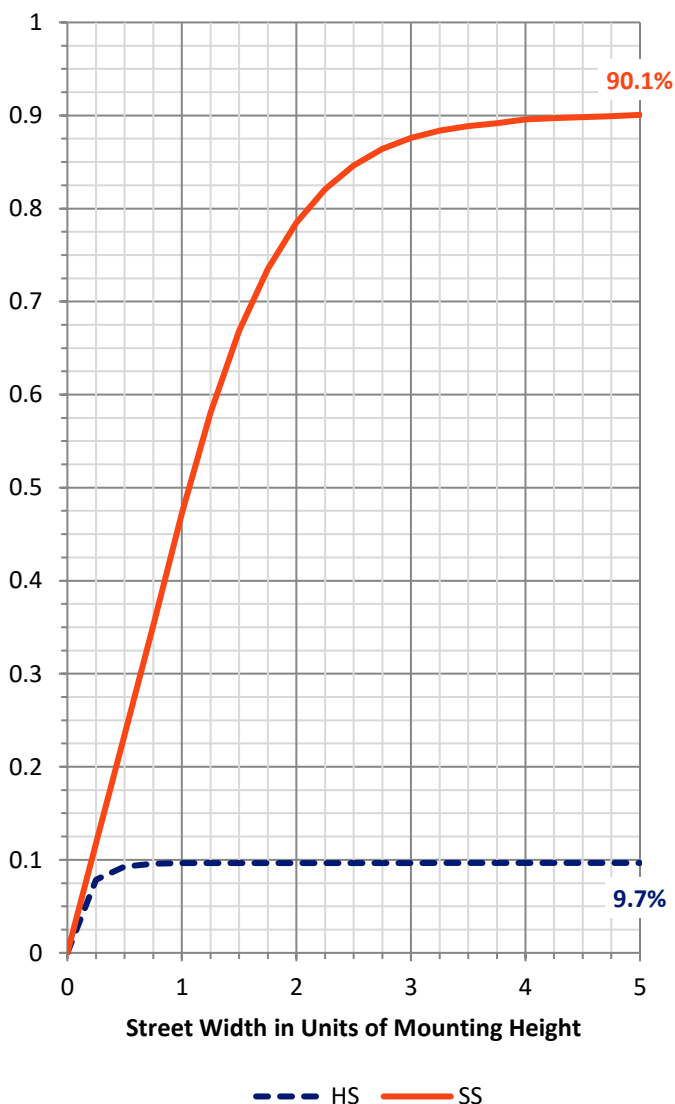
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	727.6	0.0	727.6
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	6739.4	0.0	6739.4
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	7467.0	0.0	7467.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.2	1.1
10°-20°	209.5	2.8
20°-30°	348.9	4.7
30°-40°	628.1	8.4
40°-50°	1138.9	15.3
50°-60°	1779.8	23.8
60°-70°	2059.2	27.6
70°-80°	1151.6	15.4
80°-90°	71.9	1.0
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°	7467.0	100.0
0°-180°	7467.0	100.0

**Coefficient of Utilization**

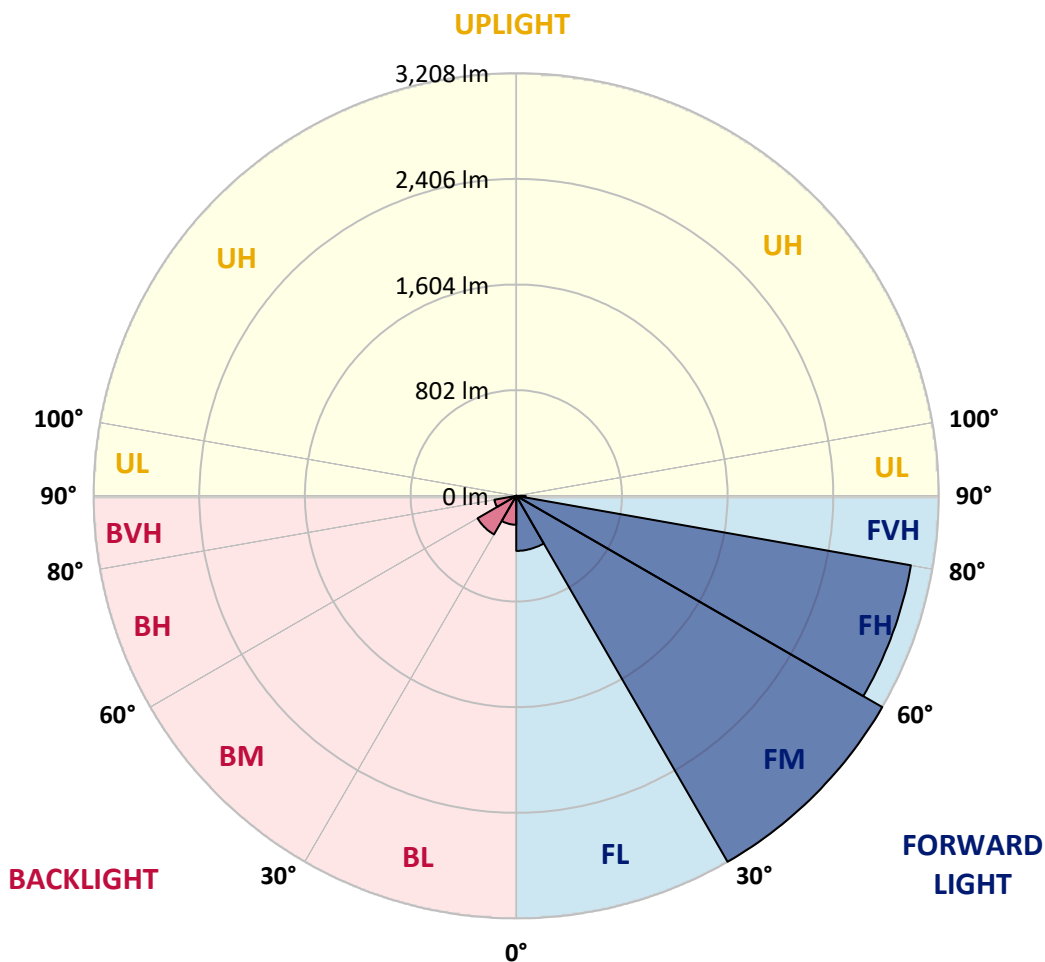


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.7	5.6			
FM (30°-60°)	3208.1	43.0			
FH (60°-80°)	3042.2	40.7			G2/5000
FVH (80°-90°)	71.4	1.0			G1/100
BL (0°-30°)	219.9	2.9	B1/500		
BM (30°-60°)	338.7	4.5	B1/1000		
BH (60°-80°)	168.5	2.3	B1/500		G1/500
BVH (80°-90°)	0.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6
2.5°	860.4	860.4	860.4	855.5	857.9	855.5	853.0	845.5	848.0	845.5	838.0
5°	830.6	833.1	840.5	845.5	857.9	862.9	865.4	865.4	862.9	857.9	853.0
7.5°	773.4	773.4	780.8	795.8	820.6	848.0	870.4	882.8	885.3	885.3	877.8
10°	758.5	758.5	768.4	778.4	803.2	835.6	870.4	900.2	905.2	910.2	907.7
12.5°	751.0	753.5	763.4	780.8	813.2	843.0	880.3	922.6	937.5	949.9	952.4
15°	761.0	761.0	770.9	788.3	825.6	867.9	915.1	962.4	977.3	994.7	1007.1
17.5°	775.9	780.8	785.8	803.2	838.0	890.3	952.4	1014.6	1032.0	1054.4	1064.3
20°	800.7	800.7	805.7	820.6	857.9	920.1	1007.1	1081.7	1096.7	1111.6	1124.0
22.5°	830.6	833.1	833.1	845.5	887.8	954.9	1054.4	1146.4	1171.3	1178.7	1183.7
25°	920.1	915.1	897.7	890.3	922.6	994.7	1111.6	1223.5	1250.8	1258.3	1248.4
27.5°	1106.6	1086.7	1039.5	989.7	984.8	1056.9	1188.7	1320.5	1350.3	1352.8	1318.0
30°	1340.4	1342.9	1265.8	1158.8	1086.7	1124.0	1273.2	1442.3	1472.2	1459.7	1405.0
32.5°	1628.8	1616.4	1559.2	1405.0	1260.8	1228.5	1365.2	1569.2	1604.0	1584.1	1512.0
35°	1875.0	1882.5	1812.9	1676.1	1494.6	1390.1	1477.1	1710.9	1753.2	1718.4	1628.8
37.5°	2081.4	2091.4	2049.1	1937.2	1775.6	1611.4	1623.9	1877.5	1934.7	1899.9	1788.0
40°	2310.2	2317.7	2300.3	2178.4	2034.2	1875.0	1820.3	2069.0	2146.1	2098.8	1982.0
42.5°	2561.4	2588.7	2558.9	2461.9	2312.7	2175.9	2093.9	2302.8	2379.8	2350.0	2193.3
45°	2904.6	2907.0	2872.2	2775.2	2621.1	2509.2	2409.7	2551.4	2650.9	2613.6	2429.6
47.5°	3158.2	3175.6	3155.7	3088.6	2964.2	2889.6	2752.9	2825.0	2929.4	2882.2	2673.3
50°	3352.2	3399.4	3382.0	3401.9	3339.7	3307.4	3098.5	3108.5	3210.4	3170.6	2922.0
52.5°	3459.1	3518.8	3523.8	3625.7	3677.9	3757.5	3434.2	3419.3	3484.0	3449.2	3175.6
55°	3444.2	3459.1	3583.4	3770.0	3973.9	4155.4	3762.5	3700.3	3789.8	3692.9	3444.2
57.5°	3300.0	3337.3	3556.1	3787.4	4147.9	4411.5	4046.0	3976.4	4051.0	3921.6	3720.2
60°	3093.6	3148.3	3429.3	3760.0	4249.9	4565.7	4322.0	4252.4	4319.5	4162.9	4033.6
62.5°	2907.0	2931.9	3190.5	3645.6	4190.2	4558.3	4535.9	4471.2	4511.0	4346.9	4302.1
65°	2641.0	2650.9	2907.0	3439.2	4058.4	4508.5	4652.8	4677.6	4719.9	4501.1	4493.6
67.5°	2230.6	2253.0	2506.7	3078.6	3839.6	4411.5	4744.8	4794.5	4844.2	4583.1	4528.4
69°	1934.7	2006.8	2250.5	2775.2	3628.2	4329.5	4769.6	4849.2	4889.0	4605.5	4411.5
70°	1693.5	1755.7	2036.7	2541.5	3441.7	4237.5	4787.0	4841.8	4881.5	4558.3	4220.1
72.5°	850.5	930.1	1315.5	1855.1	2735.5	3817.2	4697.5	4637.8	4595.6	4192.7	3414.3
75°	328.3	340.7	564.5	1056.9	1710.9	2802.6	4011.2	3899.3	3774.9	3180.6	2024.2
77.5°	181.5	179.0	246.2	467.5	728.6	1370.2	2713.1	2534.0	2362.4	1708.4	820.6
80°	77.1	82.1	106.9	223.8	383.0	475.0	1318.0	1171.3	932.5	542.1	196.5
82.5°	47.2	49.7	74.6	136.8	266.1	181.5	427.7	365.6	268.6	146.7	47.2
85°	14.9	17.4	52.2	92.0	129.3	74.6	97.0	84.6	74.6	62.2	14.9
87.5°	2.5	2.5	19.9	49.7	34.8	12.4	9.9	17.4	27.4	29.8	5.0
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°	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6	830.6
2.5°	835.6	830.6	825.6	823.1	823.1	818.1	815.7	813.2	813.2	810.7	810.7
5°	845.5	840.5	835.6	833.1	828.1	825.6	825.6	825.6	823.1	825.6	828.1
7.5°	870.4	862.9	860.4	857.9	857.9	850.5	838.0	805.7	773.4	763.4	753.5
10°	905.2	902.7	902.7	902.7	885.3	820.6	731.1	651.5	609.3	574.4	574.4
12.5°	954.9	954.9	952.4	945.0	855.5	698.8	559.5	440.2	370.5	330.7	335.7
15°	1009.6	1007.1	1012.1	964.9	753.5	539.6	338.2	238.7	201.4	196.5	196.5
17.5°	1066.8	1071.8	1066.8	912.6	619.2	333.2	201.4	181.5	176.6	176.6	176.6
20°	1126.5	1121.5	1114.1	823.1	450.1	208.9	174.1	169.1	164.1	161.6	161.6
22.5°	1186.2	1181.2	1131.5	708.7	281.0	171.6	164.1	154.2	146.7	144.2	144.2
25°	1243.4	1243.4	1099.2	562.0	191.5	161.6	149.2	139.3	131.8	124.3	124.3
27.5°	1315.5	1320.5	1046.9	392.9	161.6	149.2	134.3	119.4	109.4	104.4	104.4
30°	1397.6	1405.0	962.4	256.1	146.7	131.8	116.9	99.5	84.6	79.6	77.1
32.5°	1494.6	1502.0	865.4	169.1	131.8	114.4	97.0	74.6	59.7	57.2	54.7
35°	1618.9	1601.5	748.5	134.3	114.4	97.0	74.6	52.2	42.3	39.8	39.8
37.5°	1773.1	1735.8	614.2	116.9	97.0	77.1	54.7	34.8	27.4	27.4	24.9
40°	1949.6	1845.2	475.0	104.4	82.1	59.7	34.8	22.4	17.4	17.4	17.4
42.5°	2143.6	1937.2	338.2	92.0	67.1	42.3	22.4	12.4	9.9	9.9	9.9
45°	2367.4	2021.7	231.3	79.6	57.2	29.8	12.4	5.0	5.0	5.0	5.0
47.5°	2591.2	2076.5	154.2	69.6	42.3	17.4	7.5	2.5	2.5	2.5	2.5
50°	2817.5	2118.7	119.4	59.7	29.8	9.9	2.5	0.0	0.0	0.0	0.0
52.5°	3018.9	2148.6	97.0	49.7	19.9	7.5	2.5	0.0	0.0	0.0	0.0
55°	3193.0	2151.1	84.6	39.8	14.9	5.0	0.0	0.0	0.0	0.0	0.0
57.5°	3369.6	2131.2	72.1	29.8	9.9	2.5	0.0	0.0	0.0	0.0	0.0
60°	3476.5	2078.9	57.2	22.4	7.5	2.5	0.0	0.0	0.0	0.0	0.0
62.5°	3541.2	1991.9	44.8	14.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0
65°	3503.9	1882.5	32.3	9.9	5.0	2.5	0.0	0.0	0.0	0.0	0.0
67.5°	3329.8	1713.4	22.4	7.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0
69°	3123.4	1559.2	19.9	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
70°	2941.9	1439.8	17.4	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	2190.9	927.6	14.9	5.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1231.0	310.8	9.9	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	462.5	79.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.0	19.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	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)