

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: P594977

Luminaire Tested: **IST-PA1A-750-U-T2U**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1A-750-U-T2U  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4123 lumens  
Efficiency: N/A  
Efficacy: 143.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

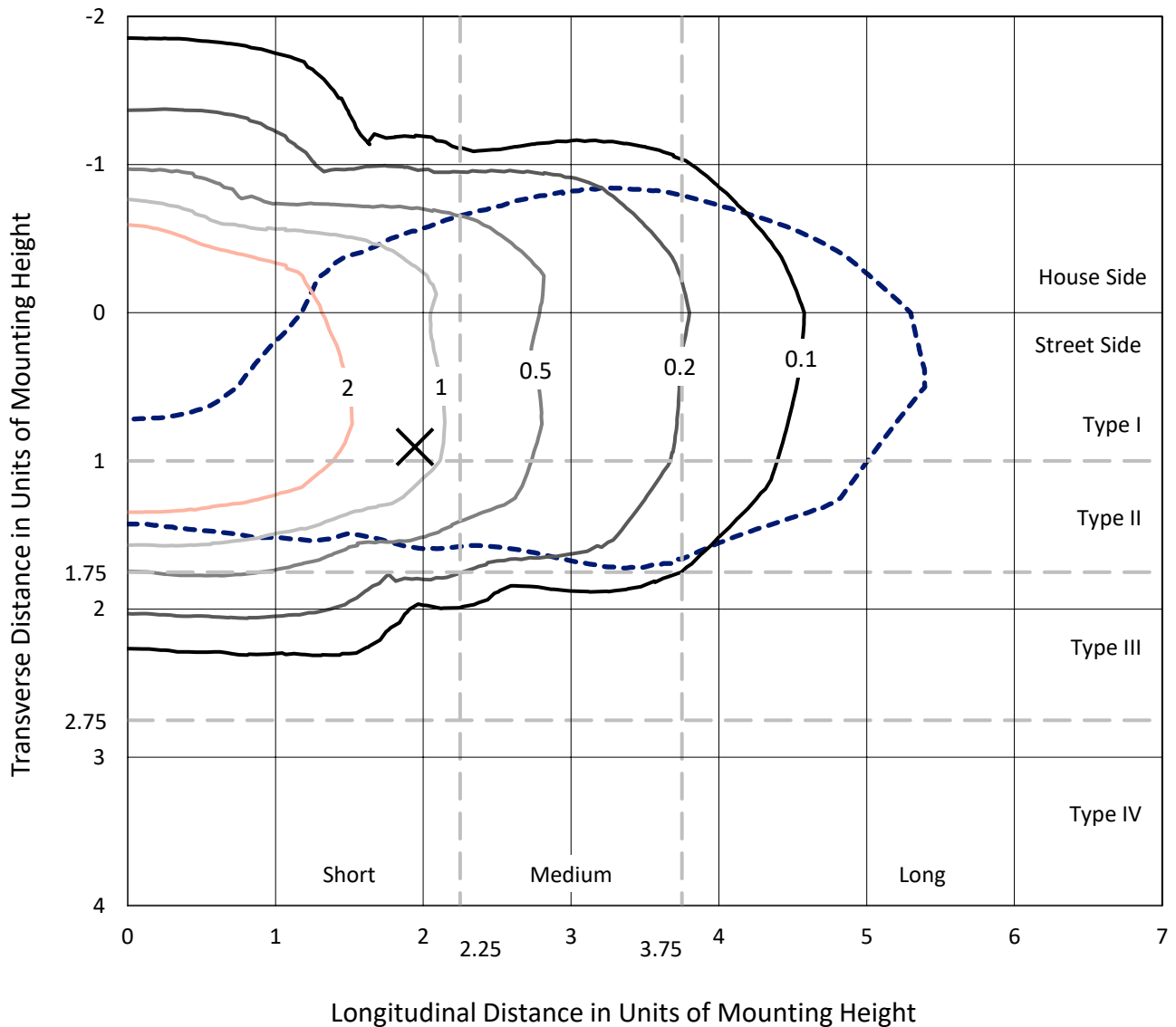
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

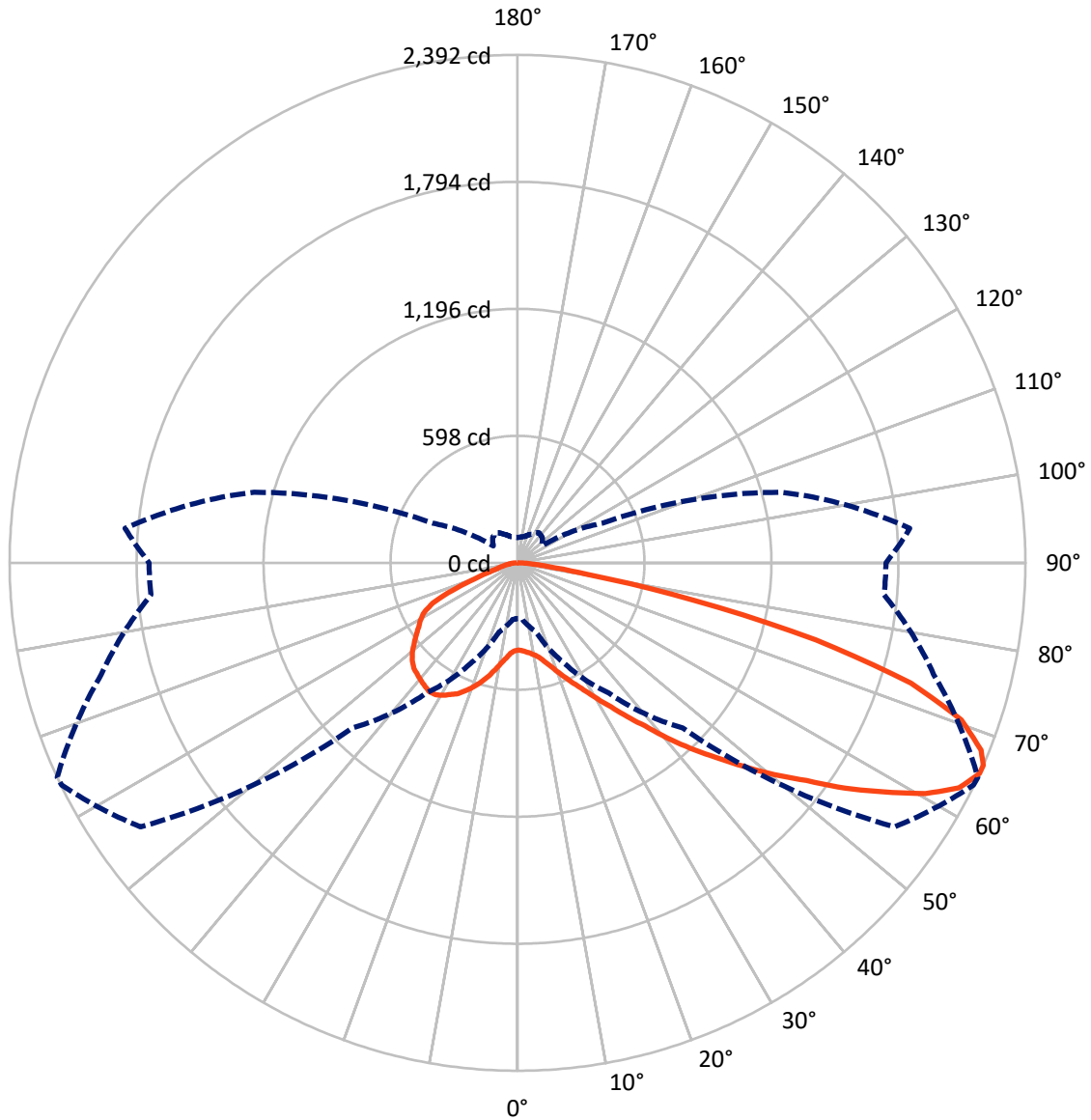
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1251.9	0.0	1251.9
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	2871.1	0.0	2871.1
	% Fixture	69.6	0.0	69.6
<b>Total</b>	Lumens	4123.0	0.0	4123.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	1.0
10°-20°	146.1	3.5
20°-30°	286.2	6.9
30°-40°	467.6	11.3
40°-50°	742.2	18.0
50°-60°	954.6	23.2
60°-70°	860.9	20.9
70°-80°	534.0	13.0
80°-90°	89.5	2.2
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°	4123.0	100.0
0°-180°	4123.0	100.0

**Coefficient of Utilization**



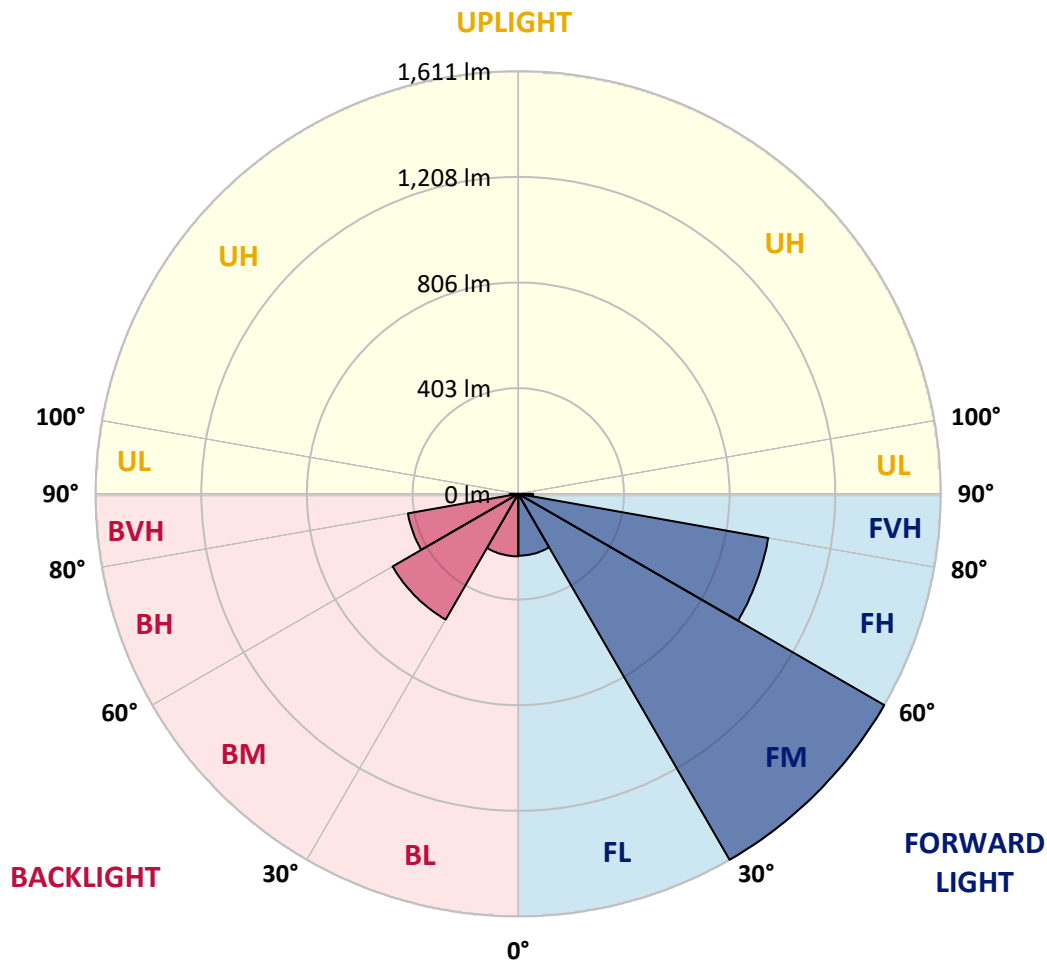
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.8	5.7			
FM (30°-60°)	1611.0	39.1			
FH (60°-80°)	967.7	23.5			G1/1800
FVH (80°-90°)	56.6	1.4			G1/100
BL (0°-30°)	238.4	5.8	B1/500		
BM (30°-60°)	553.4	13.4	B1/1000		
BH (60°-80°)	427.2	10.4	B1/500		G1/500
BVH (80°-90°)	32.9	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	412.0	413.0	414.0	412.0	414.0	415.0	413.0	413.0	414.0	412.0	412.0
5°	409.0	410.0	412.0	413.0	417.0	419.0	420.0	420.0	421.0	420.0	421.0
7.5°	401.0	401.0	405.0	407.0	413.0	420.0	424.0	430.0	430.0	431.0	434.0
10°	409.0	409.0	412.0	415.0	420.0	426.0	432.0	439.0	441.0	448.0	452.0
12.5°	421.0	423.0	427.0	431.0	437.0	444.0	449.0	456.0	457.0	464.0	472.0
15°	441.0	443.0	445.0	450.0	458.0	467.0	476.0	481.0	483.0	487.0	493.0
17.5°	471.0	473.0	474.0	477.0	483.0	495.0	508.0	512.0	514.0	514.0	519.0
20°	522.0	521.0	519.0	513.0	513.0	524.0	542.0	549.0	551.0	547.0	544.0
22.5°	581.0	580.0	572.0	565.0	560.0	562.0	580.0	591.9	590.9	583.0	571.0
25°	657.9	659.9	646.9	628.9	613.9	609.9	620.9	632.9	634.9	619.9	599.9
27.5°	749.9	746.9	739.9	710.9	681.9	663.9	669.9	682.9	683.9	667.9	635.9
30°	857.9	852.9	834.9	804.9	759.9	734.9	729.9	740.9	743.9	716.9	670.9
32.5°	977.9	972.9	949.9	903.9	854.9	812.9	796.9	811.9	809.9	778.9	714.9
35°	1122.9	1121.9	1079.9	1022.9	960.9	904.9	882.9	882.9	888.9	842.9	770.9
37.5°	1316.9	1324.9	1262.9	1173.9	1086.9	1011.9	974.9	972.9	973.9	923.9	833.9
40°	1491.9	1488.9	1452.9	1369.9	1242.9	1146.9	1091.9	1079.9	1082.9	1018.9	915.9
42.5°	1592.9	1595.9	1586.9	1550.9	1439.9	1318.9	1224.9	1192.9	1193.9	1113.9	993.9
45°	1655.9	1658.9	1657.9	1675.9	1631.9	1517.9	1383.9	1309.9	1305.9	1221.9	1085.9
47.5°	1691.9	1693.9	1706.9	1743.9	1779.8	1753.9	1559.9	1439.9	1431.9	1322.9	1177.9
50°	1651.9	1652.9	1704.9	1792.8	1880.8	1959.8	1739.9	1568.9	1566.9	1434.9	1267.9
52.5°	1441.9	1459.9	1574.9	1758.9	1955.8	2105.8	1947.8	1720.9	1703.9	1540.9	1357.9
55°	1176.9	1184.9	1316.9	1550.9	1941.8	2195.8	2104.8	1884.8	1872.8	1658.9	1445.9
57.5°	918.9	926.9	1083.9	1278.9	1727.9	2190.8	2215.8	2061.8	2034.8	1761.8	1533.9
60°	592.9	617.9	799.9	1039.9	1398.9	2038.8	2271.8	2231.8	2206.8	1863.8	1608.9
62.5°	403.0	407.0	521.0	770.9	1046.9	1656.9	2267.8	2336.8	2332.8	1965.8	1683.9
65°	262.0	268.0	337.0	522.0	748.9	1099.9	2167.8	2387.8	2391.8	2028.8	1732.9
66°	222.0	226.0	279.0	439.0	655.9	871.9	2079.8	2383.8	2391.8	2057.8	1747.9
67.5°	193.0	196.0	223.0	324.0	536.0	626.9	1850.8	2330.8	2353.8	2084.8	1766.8
70°	166.0	170.0	195.0	221.0	383.0	366.0	1171.9	2194.8	2217.8	2097.8	1778.8
72.5°	137.0	140.0	165.0	200.0	278.0	246.0	517.0	1878.8	1936.8	2049.8	1759.8
75°	108.0	110.0	133.0	167.0	213.0	192.0	225.0	1377.9	1450.9	1806.8	1685.9
77.5°	84.0	85.0	103.0	130.0	195.0	149.0	139.0	670.9	848.9	1395.9	1484.9
80°	58.0	60.0	76.0	98.0	143.0	118.0	93.0	262.0	333.0	926.9	1125.9
82.5°	38.0	39.0	52.0	74.0	95.0	113.0	61.0	127.0	140.0	427.0	488.0
85°	26.0	26.0	37.0	46.0	65.0	75.0	40.0	67.0	73.0	162.0	59.0
87.5°	13.0	13.0	18.0	24.0	31.0	29.0	24.0	24.0	24.0	53.0	17.0
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°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	413.0	413.0	414.0	415.0	416.0	416.0	417.0	417.0	416.0	417.0	418.0
5°	422.0	423.0	425.0	428.0	433.0	438.0	443.0	446.0	449.0	450.0	448.0
7.5°	436.0	438.0	445.0	453.0	461.0	473.0	480.0	484.0	486.0	488.0	486.0
10°	454.0	458.0	468.0	482.0	496.0	511.0	519.0	525.0	526.0	528.0	526.0
12.5°	475.0	482.0	497.0	517.0	534.0	549.0	555.0	551.0	542.0	538.0	537.0
15°	500.0	507.0	528.0	553.0	573.0	580.0	571.0	558.0	548.0	547.0	546.0
17.5°	522.0	532.0	561.0	586.9	605.9	598.9	575.0	567.0	564.0	568.0	567.0
20°	550.0	558.0	586.9	618.9	628.9	601.9	585.0	580.0	577.0	577.0	575.0
22.5°	573.0	579.0	613.9	648.9	642.9	603.9	591.9	582.0	572.0	571.0	568.0
25°	599.9	601.9	638.9	676.9	644.9	605.9	585.0	568.0	558.0	555.0	556.0
27.5°	624.9	629.9	661.9	695.9	639.9	594.9	561.0	539.0	524.0	523.0	523.0
30°	656.9	656.9	685.9	716.9	628.9	567.0	522.0	490.0	478.0	477.0	475.0
32.5°	692.9	686.9	714.9	731.9	604.9	529.0	469.0	433.0	414.0	410.0	407.0
35°	742.9	729.9	749.9	734.9	581.0	475.0	402.0	361.0	347.0	341.0	341.0
37.5°	800.9	781.9	802.9	725.9	544.0	412.0	332.0	301.0	286.0	277.0	280.0
40°	868.9	844.9	856.9	715.9	504.0	342.0	274.0	255.0	237.0	225.0	225.0
42.5°	948.9	908.9	917.9	705.9	447.0	281.0	237.0	224.0	210.0	198.0	201.0
45°	1025.9	986.9	977.9	695.9	387.0	240.0	222.0	213.0	200.0	186.0	186.0
47.5°	1114.9	1064.9	1030.9	677.9	328.0	227.0	226.0	213.0	188.0	168.0	166.0
50°	1198.9	1152.9	1078.9	650.9	295.0	238.0	225.0	194.0	170.0	157.0	156.0
52.5°	1287.9	1239.9	1117.9	617.9	278.0	233.0	207.0	178.0	160.0	147.0	144.0
55°	1375.9	1350.9	1152.9	586.0	251.0	217.0	192.0	168.0	149.0	137.0	135.0
57.5°	1475.9	1465.9	1182.9	554.0	209.0	197.0	181.0	161.0	143.0	134.0	133.0
60°	1562.9	1597.9	1218.9	530.0	178.0	182.0	176.0	160.0	147.0	137.0	137.0
62.5°	1654.9	1724.9	1250.9	499.0	155.0	173.0	177.0	159.0	142.0	133.0	133.0
65°	1734.9	1854.8	1283.9	442.0	139.0	166.0	174.0	148.0	128.0	121.0	119.0
66°	1768.8	1891.8	1293.9	407.0	133.0	161.0	169.0	142.0	122.0	116.0	115.0
67.5°	1808.8	1949.8	1305.9	332.0	124.0	150.0	158.0	133.0	112.0	108.0	106.0
70°	1864.8	1961.8	1298.9	217.0	108.0	129.0	141.0	119.0	100.0	97.0	94.0
72.5°	1870.8	1879.8	1228.9	137.0	94.0	111.0	124.0	107.0	88.0	85.0	83.0
75°	1771.8	1665.9	1039.9	98.0	83.0	98.0	109.0	93.0	73.0	69.0	67.0
77.5°	1512.9	1321.9	747.9	73.0	72.0	84.0	91.0	81.0	61.0	58.0	57.0
80°	1061.9	896.9	375.0	55.0	57.0	70.0	76.0	68.0	51.0	47.0	45.0
82.5°	430.0	381.0	129.0	41.0	43.0	53.0	65.0	56.0	39.0	34.0	30.0
85°	49.0	83.0	56.0	28.0	29.0	36.0	44.0	34.0	23.0	19.0	16.0
87.5°	10.0	18.0	20.0	11.0	10.0	14.0	20.0	12.0	8.0	3.0	4.0
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)