

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: P595146

Luminaire Tested: **IST-PA1C-750-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595146  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: IST-PA1C-750-U-T2R  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6738 lumens  
Efficiency: N/A  
Efficacy: 139.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 48.3  
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

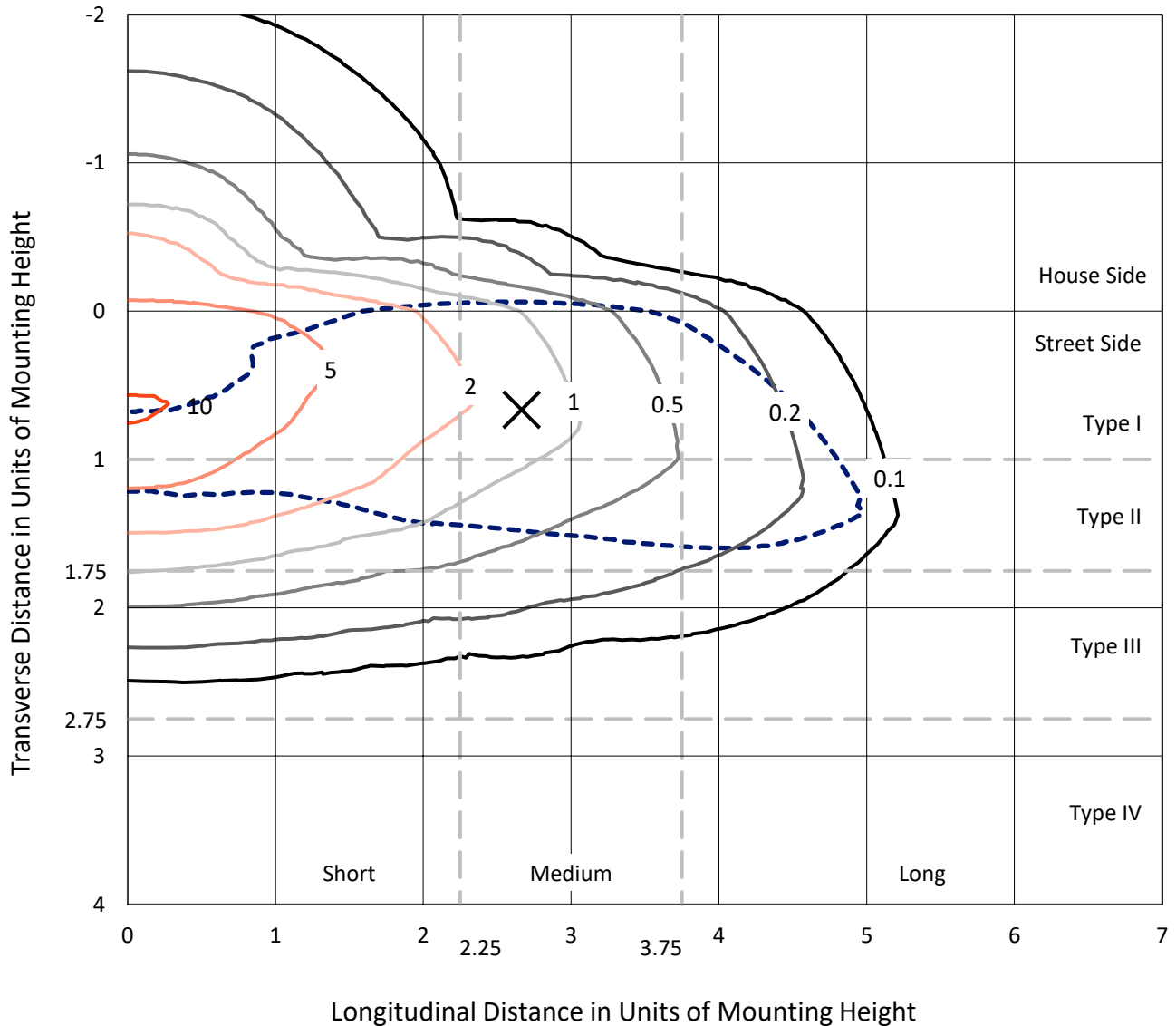




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### Iso-Footcandle Lines of Horizontal Illumination

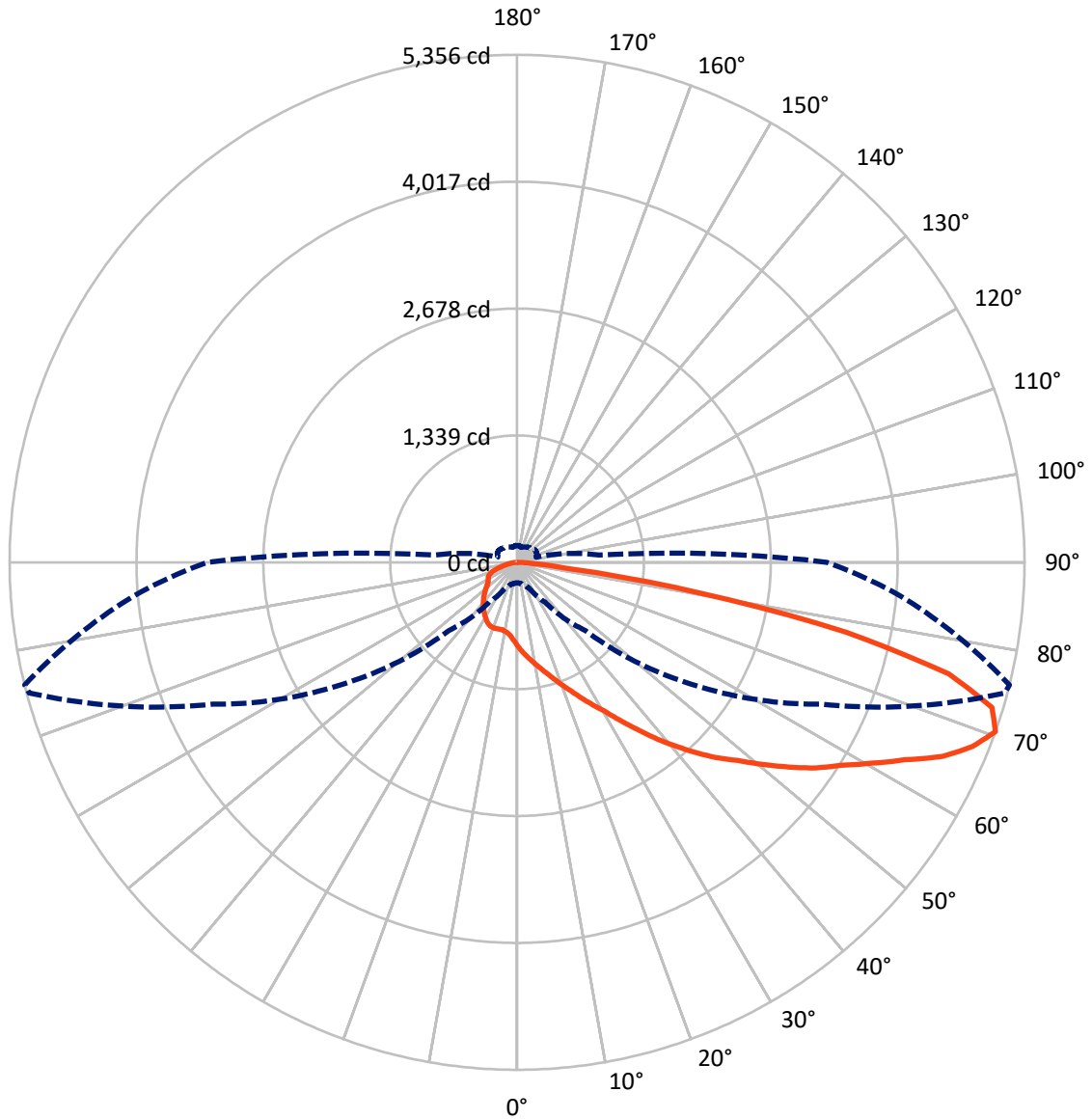
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1080.7	0.0	1080.7
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	5657.3	0.0	5657.3
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	6738.0	0.0	6738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	1.3
10°-20°	284.3	4.2
20°-30°	523.9	7.8
30°-40°	877.8	13.0
40°-50°	1247.3	18.5
50°-60°	1440.1	21.4
60°-70°	1323.8	19.6
70°-80°	834.7	12.4
80°-90°	120.1	1.8
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°	6738.0	100.0
0°-180°	6738.0	100.0

**Coefficient of Utilization**

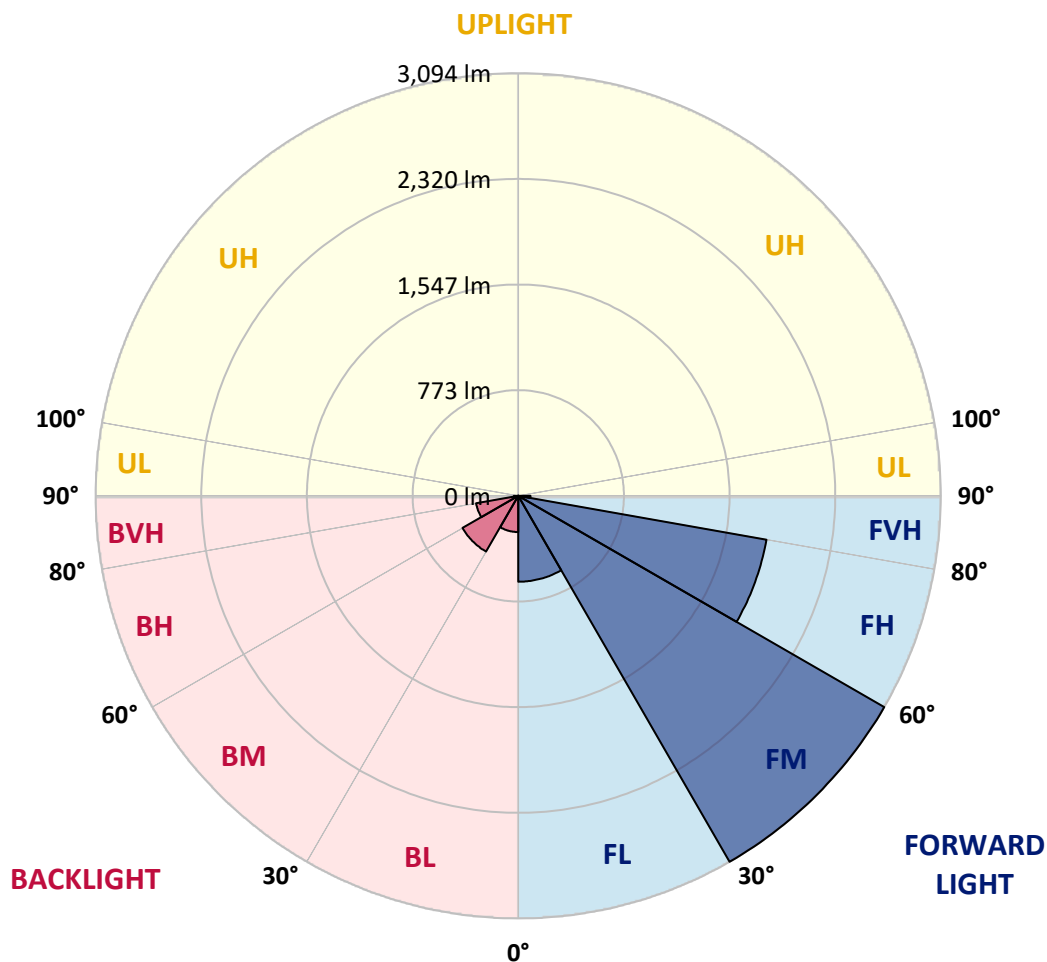


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.1	9.3			
FM (30°-60°)	3093.9	45.9			
FH (60°-80°)	1845.3	27.4			G2/5000
FVH (80°-90°)	89.0	1.3			G1/100
BL (0°-30°)	265.3	3.9	B1/500		
BM (30°-60°)	471.1	7.0	B1/1000		
BH (60°-80°)	313.2	4.6	B1/500		G1/500
BVH (80°-90°)	31.1	0.5			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9
2.5°	1064.0	1062.3	1057.5	1049.4	1042.9	1023.4	997.5	974.8	940.7	937.4	903.4
5°	1159.6	1153.2	1153.2	1145.0	1136.9	1115.9	1083.4	1042.9	994.2	991.0	926.1
7.5°	1205.1	1206.7	1203.4	1196.9	1198.6	1180.7	1151.5	1111.0	1044.5	1041.2	956.9
10°	1269.9	1268.3	1261.8	1257.0	1255.3	1239.1	1213.2	1175.9	1106.1	1099.6	992.6
12.5°	1333.2	1328.3	1329.9	1328.3	1325.1	1308.9	1284.5	1247.2	1161.3	1158.0	1036.4
15°	1368.9	1367.2	1378.6	1381.8	1394.8	1380.2	1359.1	1317.0	1239.1	1226.1	1088.3
17.5°	1391.6	1390.0	1401.3	1427.3	1451.6	1451.6	1445.1	1399.7	1313.7	1304.0	1146.7
20°	1430.5	1437.0	1456.4	1477.5	1513.2	1519.7	1518.1	1498.6	1399.7	1390.0	1211.5
22.5°	1508.3	1505.1	1521.3	1553.8	1586.2	1595.9	1597.6	1597.6	1498.6	1480.8	1278.0
25°	1675.4	1667.3	1654.3	1651.1	1690.0	1688.4	1683.5	1694.9	1602.4	1589.4	1354.3
27.5°	1993.3	1975.5	1925.2	1824.6	1801.9	1810.0	1785.7	1787.3	1720.8	1704.6	1419.1
30°	2295.0	2286.9	2239.8	2118.2	1990.0	1944.6	1902.5	1884.6	1852.2	1824.6	1488.9
32.5°	2567.4	2569.1	2512.3	2379.3	2247.9	2105.2	2032.2	1994.9	2007.9	1983.6	1584.6
35°	2752.3	2737.7	2702.1	2612.9	2470.1	2333.9	2194.4	2111.7	2181.4	2153.9	1680.3
37.5°	2861.0	2849.6	2820.5	2757.2	2685.8	2554.5	2377.7	2251.2	2387.4	2346.9	1801.9
40°	2916.1	2899.9	2870.7	2844.8	2810.7	2739.4	2583.7	2410.1	2575.5	2539.9	1921.9
42.5°	2922.6	2911.3	2895.1	2882.1	2893.4	2883.7	2784.8	2595.0	2773.4	2734.5	2059.8
45°	2917.8	2925.9	2906.4	2883.7	2906.4	2989.1	2989.1	2779.9	2969.7	2940.5	2191.2
47.5°	2921.0	2912.9	2906.4	2899.9	2903.2	3016.7	3130.2	2953.4	3157.8	3123.7	2345.2
50°	2786.4	2797.7	2852.9	2877.2	2891.8	3023.2	3243.8	3141.6	3391.4	3349.2	2517.2
52.5°	2358.2	2364.7	2616.1	2797.7	2856.1	2997.2	3323.2	3350.8	3621.7	3589.2	2702.1
55°	1816.5	1850.6	2089.0	2533.4	2775.0	2953.4	3347.6	3487.0	3856.8	3830.9	2888.6
57.5°	1495.4	1500.2	1638.1	2035.5	2518.8	2912.9	3371.9	3611.9	4067.7	4038.5	3083.2
60°	1240.7	1229.4	1313.7	1570.0	2092.2	2750.7	3376.8	3710.9	4312.6	4302.9	3284.3
62.5°	911.5	924.5	1005.6	1222.9	1636.5	2421.5	3352.4	3795.2	4604.5	4591.5	3508.1
65°	559.5	575.8	674.7	874.2	1239.1	1921.9	3193.5	3839.0	4911.1	4940.2	3749.8
67.5°	296.8	308.2	366.5	528.7	849.9	1464.6	2810.7	3783.8	5170.6	5183.5	3981.7
70°	217.3	219.0	238.4	298.4	512.5	1018.5	2238.2	3543.8	5329.5	5355.5	4057.9
72.5°	189.8	191.4	199.5	214.1	279.0	621.2	1604.0	3125.4	5263.0	5240.3	3929.8
75°	171.9	171.9	178.4	183.3	204.4	343.8	982.9	2557.7	4755.4	4705.1	3350.8
77.5°	147.6	147.6	154.1	160.6	176.8	222.2	514.1	1896.0	3636.3	3550.3	2291.7
80°	118.4	118.4	126.5	134.6	155.7	167.1	251.4	1268.3	2079.3	1952.7	1042.9
82.5°	81.1	87.6	102.2	111.9	129.8	118.4	147.6	548.2	655.2	567.7	235.2
85°	48.7	51.9	73.0	84.3	97.3	63.3	90.8	210.8	196.2	171.9	53.5
87.5°	4.9	8.1	29.2	34.1	34.1	17.8	38.9	50.3	56.8	58.4	13.0
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°	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9	883.9
2.5°	883.9	864.5	827.2	793.1	759.0	736.3	713.6	705.5	694.2	686.1	692.5
5°	892.0	851.5	780.1	720.1	679.6	648.8	634.2	626.0	619.6	617.9	616.3
7.5°	901.8	841.8	746.1	679.6	640.6	626.0	622.8	622.8	622.8	624.4	626.0
10°	922.9	845.0	728.2	656.9	635.8	632.5	634.2	640.6	640.6	642.3	642.3
12.5°	947.2	853.1	715.2	653.6	640.6	642.3	643.9	647.1	647.1	652.0	650.4
15°	982.9	869.3	713.6	656.9	645.5	642.3	642.3	640.6	640.6	640.6	643.9
17.5°	1028.3	892.0	715.2	656.9	640.6	634.2	629.3	624.4	617.9	621.2	617.9
20°	1073.7	919.6	715.2	648.8	627.7	611.4	596.9	588.7	580.6	579.0	580.6
22.5°	1130.5	952.0	707.1	630.9	600.1	577.4	556.3	545.0	532.0	527.1	523.9
25°	1179.1	978.0	690.9	605.0	569.3	536.8	509.3	489.8	473.6	470.3	470.3
27.5°	1229.4	1000.7	666.6	572.5	525.5	489.8	459.0	434.7	418.4	416.8	415.2
30°	1276.4	1020.2	634.2	536.8	486.6	444.4	408.7	387.6	373.0	364.9	360.1
32.5°	1338.1	1046.1	603.3	501.2	441.2	399.0	366.5	348.7	329.2	316.3	311.4
35°	1415.9	1076.9	569.3	462.2	400.6	358.4	339.0	313.0	288.7	274.1	269.2
37.5°	1503.5	1120.7	533.6	421.7	360.1	329.2	317.9	277.3	251.4	246.5	244.9
40°	1612.1	1162.9	493.1	379.5	321.1	313.0	293.6	251.4	238.4	236.8	235.2
42.5°	1720.8	1208.3	454.1	337.4	290.3	293.6	266.0	244.9	233.6	230.3	228.7
45°	1847.3	1253.7	415.2	300.0	266.0	266.0	251.4	238.4	228.7	225.4	225.4
47.5°	1980.3	1299.1	373.0	267.6	248.1	238.4	240.0	230.3	223.8	220.6	219.0
50°	2147.4	1342.9	334.1	244.9	236.8	223.8	228.7	222.2	219.0	215.7	214.1
52.5°	2304.7	1362.4	298.4	231.9	230.3	217.3	219.0	215.7	214.1	209.2	207.6
55°	2458.8	1357.5	270.9	225.4	222.2	215.7	212.5	210.8	209.2	204.4	202.7
57.5°	2630.7	1351.0	253.0	223.8	217.3	210.8	210.8	206.0	199.5	199.5	199.5
60°	2809.1	1329.9	244.9	223.8	215.7	210.8	207.6	202.7	196.2	197.9	196.2
62.5°	3010.2	1289.4	240.0	228.7	217.3	209.2	206.0	199.5	191.4	193.0	191.4
65°	3187.0	1206.7	236.8	233.6	220.6	210.8	202.7	194.6	184.9	186.5	184.9
67.5°	3307.0	1067.2	227.1	236.8	225.4	209.2	199.5	188.1	175.2	181.7	180.0
70°	3273.0	867.7	209.2	230.3	230.3	210.8	194.6	180.0	165.4	178.4	173.5
72.5°	3008.6	652.0	175.2	207.6	227.1	210.8	184.9	167.1	154.1	162.2	152.5
75°	2470.1	442.8	139.5	165.4	212.5	212.5	176.8	154.1	137.9	133.0	129.8
77.5°	1540.8	275.7	108.7	121.6	178.4	210.8	168.7	137.9	115.2	111.9	108.7
80°	609.8	147.6	86.0	87.6	131.4	193.0	157.3	116.8	92.4	89.2	82.7
82.5°	139.5	74.6	60.0	58.4	81.1	157.3	142.7	92.4	71.4	71.4	60.0
85°	42.2	38.9	38.9	37.3	40.5	81.1	110.3	63.3	48.7	34.1	29.2
87.5°	11.4	16.2	14.6	13.0	13.0	11.4	35.7	16.2	9.7	4.9	3.2
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)