

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: P594969

Luminaire Tested: **IST-PA1A-740-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594969
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-PA1A-740-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 350mA 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: 3003 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

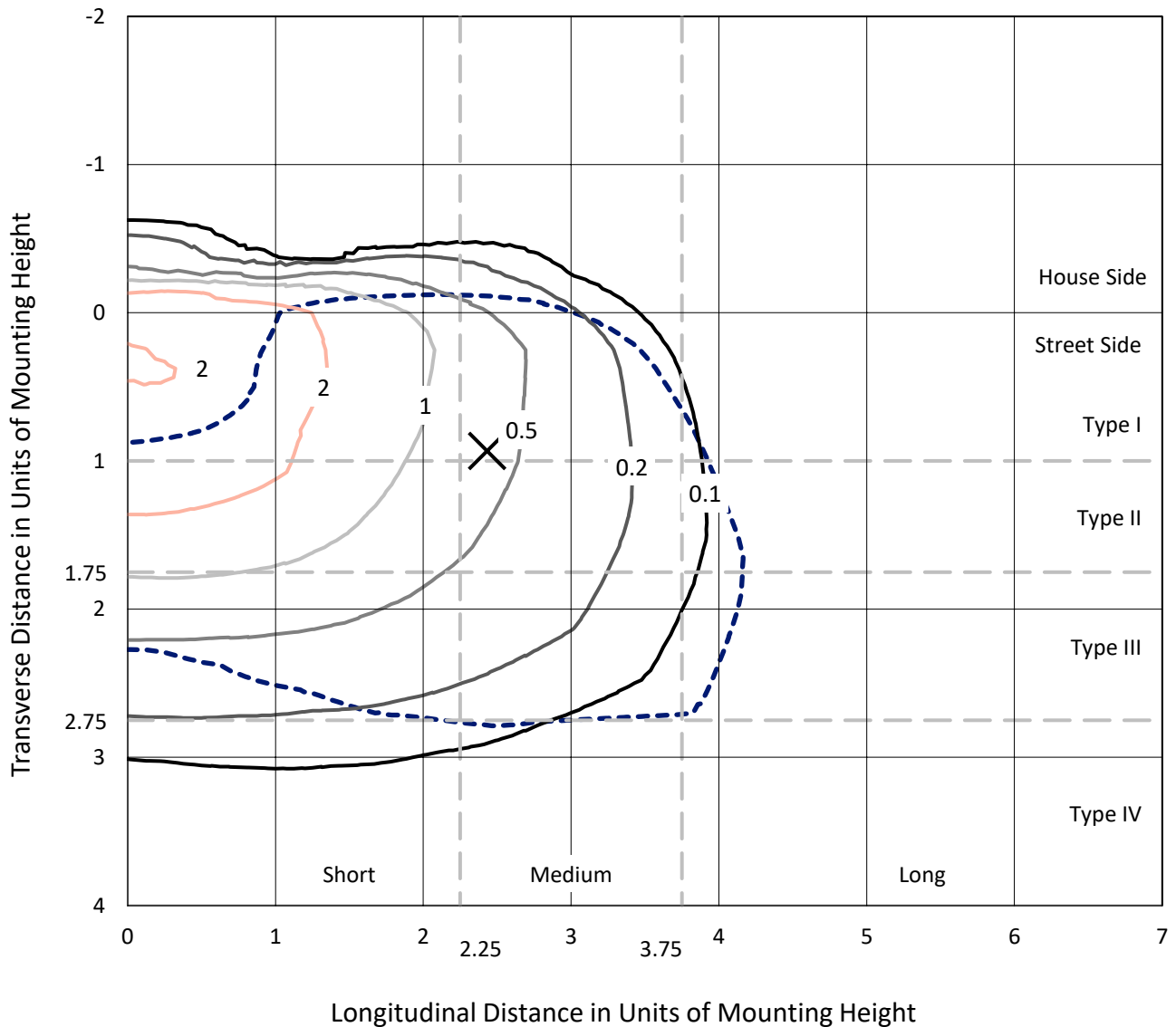
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

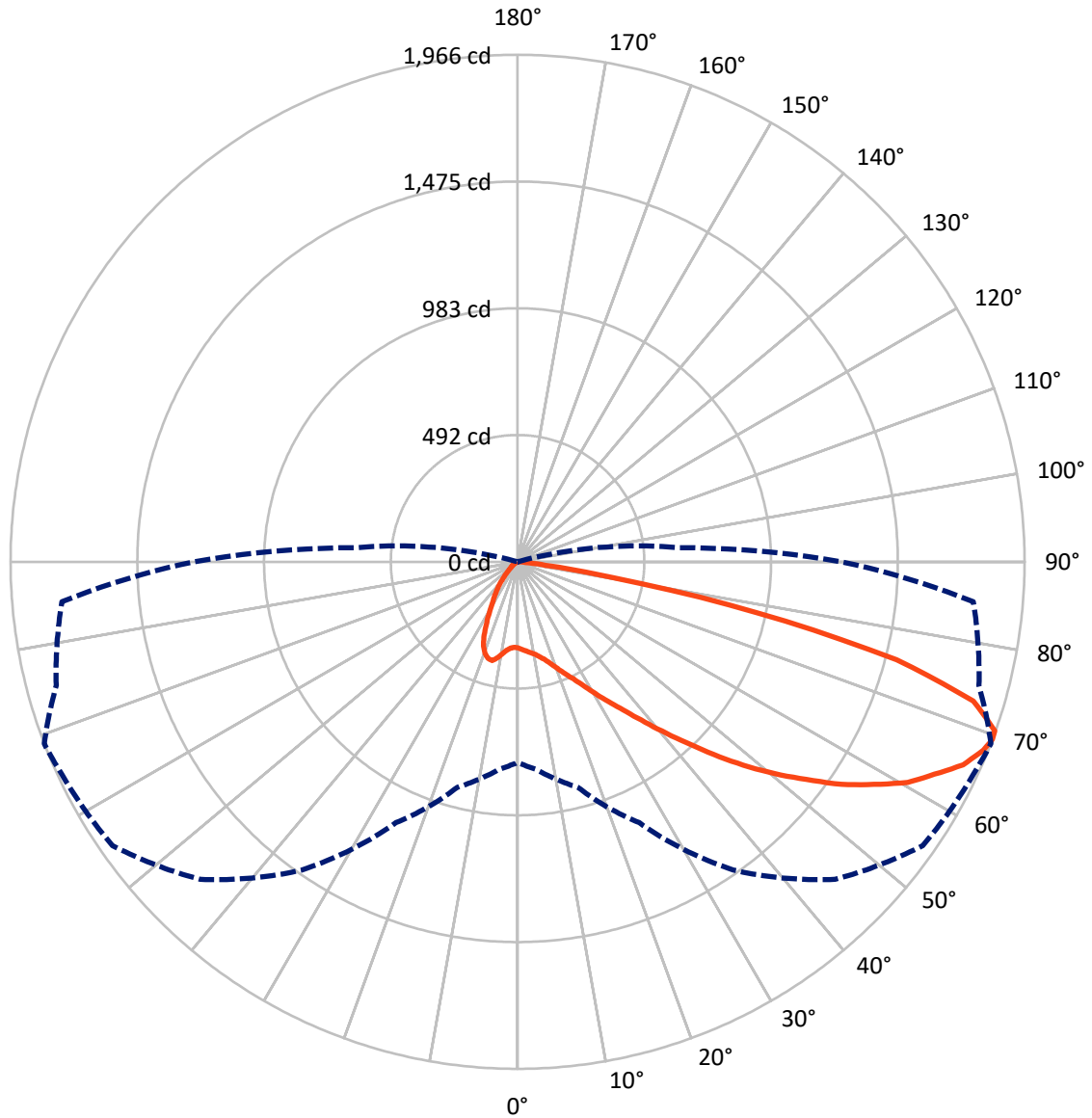
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.9 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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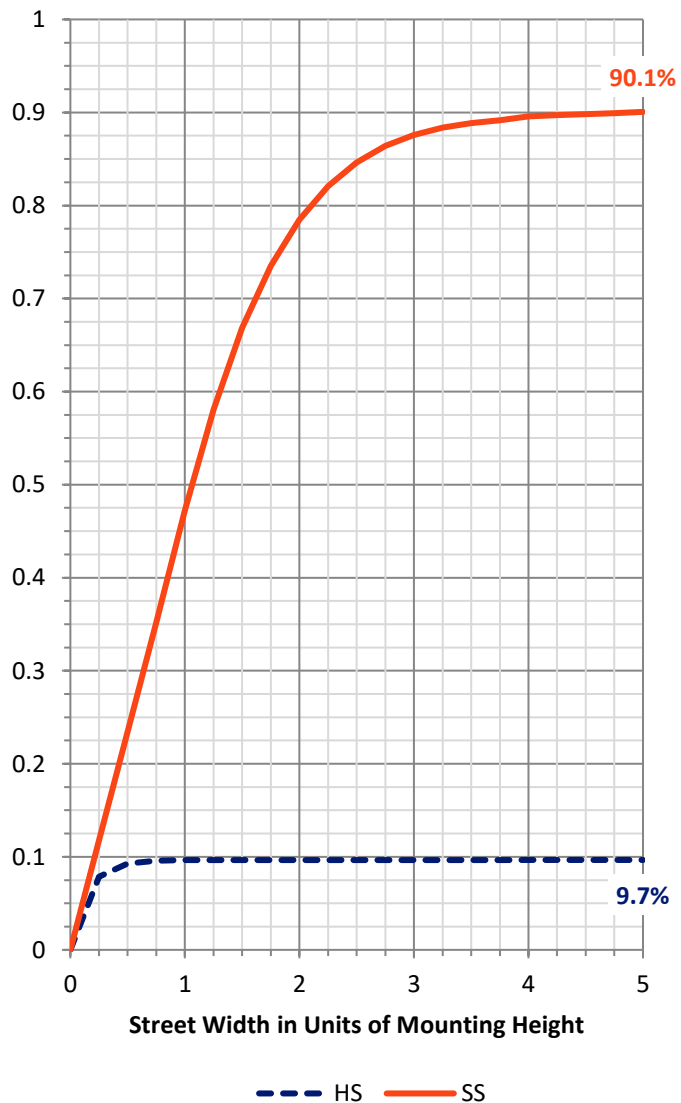
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	292.6	0.0	292.6
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2710.4	0.0	2710.4
	% Fixture	90.3	0.0	90.3
Total	Lumens	3003.0	0.0	3003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	1.1
10°-20°	84.3	2.8
20°-30°	140.3	4.7
30°-40°	252.6	8.4
40°-50°	458.0	15.3
50°-60°	715.8	23.8
60°-70°	828.1	27.6
70°-80°	463.1	15.4
80°-90°	28.9	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°	3003.0	100.0
0°-180°	3003.0	100.0

Coefficient of Utilization

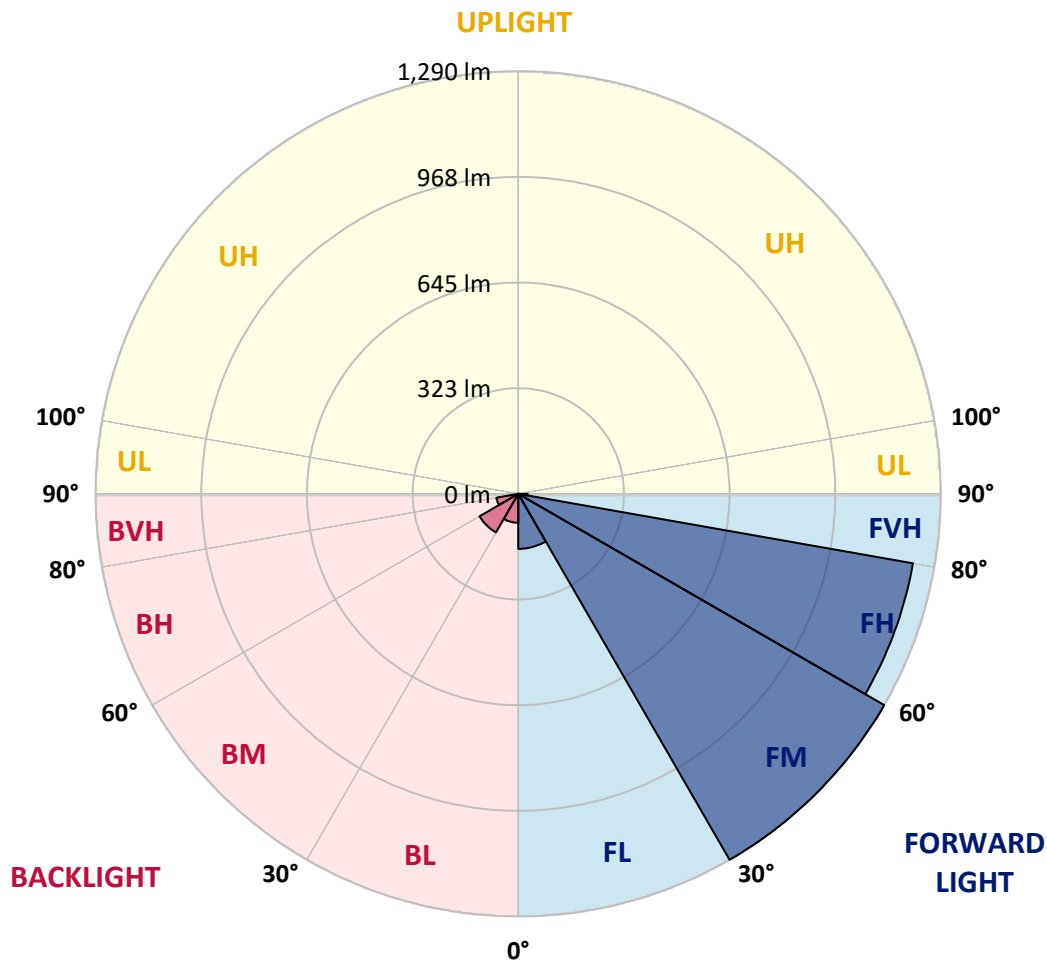


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.0	5.6			
FM (30°-60°)	1290.2	43.0			
FH (60°-80°)	1223.5	40.7			G1/1800
FVH (80°-90°)	28.7	1.0			G1/100
BL (0°-30°)	88.4	2.9	B0/110		
BM (30°-60°)	136.2	4.5	B0/220		
BH (60°-80°)	67.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0
2.5°	346.0	346.0	346.0	344.0	345.0	344.0	343.0	340.0	341.0	340.0	337.0
5°	334.0	335.0	338.0	340.0	345.0	347.0	348.0	348.0	347.0	345.0	343.0
7.5°	311.0	311.0	314.0	320.0	330.0	341.0	350.0	355.0	356.0	356.0	353.0
10°	305.0	305.0	309.0	313.0	323.0	336.0	350.0	362.0	364.0	366.0	365.0
12.5°	302.0	303.0	307.0	314.0	327.0	339.0	354.0	371.0	377.0	382.0	383.0
15°	306.0	306.0	310.0	317.0	332.0	349.0	368.0	387.0	393.0	400.0	405.0
17.5°	312.0	314.0	316.0	323.0	337.0	358.0	383.0	408.0	415.0	424.0	428.0
20°	322.0	322.0	324.0	330.0	345.0	370.0	405.0	435.0	441.0	447.0	452.0
22.5°	334.0	335.0	335.0	340.0	357.0	384.0	424.0	461.0	471.0	474.1	476.1
25°	370.0	368.0	361.0	358.0	371.0	400.0	447.0	492.1	503.1	506.1	502.1
27.5°	445.0	437.0	418.0	398.0	396.0	425.0	478.1	531.1	543.1	544.1	530.1
30°	539.1	540.1	509.1	466.0	437.0	452.0	512.1	580.1	592.1	587.1	565.1
32.5°	655.1	650.1	627.1	565.1	507.1	494.1	549.1	631.1	645.1	637.1	608.1
35°	754.1	757.1	729.1	674.1	601.1	559.1	594.1	688.1	705.1	691.1	655.1
37.5°	837.1	841.1	824.1	779.1	714.1	648.1	653.1	755.1	778.1	764.1	719.1
40°	929.1	932.1	925.1	876.1	818.1	754.1	732.1	832.1	863.1	844.1	797.1
42.5°	1030.1	1041.1	1029.1	990.1	930.1	875.1	842.1	926.1	957.1	945.1	882.1
45°	1168.1	1169.1	1155.1	1116.1	1054.1	1009.1	969.1	1026.1	1066.1	1051.1	977.1
47.5°	1270.1	1277.1	1269.1	1242.1	1192.1	1162.1	1107.1	1136.1	1178.1	1159.1	1075.1
50°	1348.1	1367.1	1360.1	1368.1	1343.1	1330.1	1246.1	1250.1	1291.1	1275.1	1175.1
52.5°	1391.1	1415.2	1417.2	1458.2	1479.2	1511.2	1381.1	1375.1	1401.1	1387.1	1277.1
55°	1385.1	1391.1	1441.2	1516.2	1598.2	1671.2	1513.2	1488.2	1524.2	1485.2	1385.1
57.5°	1327.1	1342.1	1430.2	1523.2	1668.2	1774.2	1627.2	1599.2	1629.2	1577.2	1496.2
60°	1244.1	1266.1	1379.1	1512.2	1709.2	1836.2	1738.2	1710.2	1737.2	1674.2	1622.2
62.5°	1169.1	1179.1	1283.1	1466.2	1685.2	1833.2	1824.2	1798.2	1814.2	1748.2	1730.2
65°	1062.1	1066.1	1169.1	1383.1	1632.2	1813.2	1871.2	1881.2	1898.2	1810.2	1807.2
67.5°	897.1	906.1	1008.1	1238.1	1544.2	1774.2	1908.2	1928.2	1948.2	1843.2	1821.2
69°	778.1	807.1	905.1	1116.1	1459.2	1741.2	1918.2	1950.2	1966.2	1852.2	1774.2
70°	681.1	706.1	819.1	1022.1	1384.1	1704.2	1925.2	1947.2	1963.2	1833.2	1697.2
72.5°	342.0	374.0	529.1	746.1	1100.1	1535.2	1889.2	1865.2	1848.2	1686.2	1373.1
75°	132.0	137.0	227.0	425.0	688.1	1127.1	1613.2	1568.2	1518.2	1279.1	814.1
77.5°	73.0	72.0	99.0	188.0	293.0	551.1	1091.1	1019.1	950.1	687.1	330.0
80°	31.0	33.0	43.0	90.0	154.0	191.0	530.1	471.0	375.0	218.0	79.0
82.5°	19.0	20.0	30.0	55.0	107.0	73.0	172.0	147.0	108.0	59.0	19.0
85°	6.0	7.0	21.0	37.0	52.0	30.0	39.0	34.0	30.0	25.0	6.0
87.5°	1.0	1.0	8.0	20.0	14.0	5.0	4.0	7.0	11.0	12.0	2.0
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°	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0	334.0
2.5°	336.0	334.0	332.0	331.0	331.0	329.0	328.0	327.0	327.0	326.0	326.0
5°	340.0	338.0	336.0	335.0	333.0	332.0	332.0	332.0	331.0	332.0	333.0
7.5°	350.0	347.0	346.0	345.0	345.0	342.0	337.0	324.0	311.0	307.0	303.0
10°	364.0	363.0	363.0	363.0	356.0	330.0	294.0	262.0	245.0	231.0	231.0
12.5°	384.0	384.0	383.0	380.0	344.0	281.0	225.0	177.0	149.0	133.0	135.0
15°	406.0	405.0	407.0	388.0	303.0	217.0	136.0	96.0	81.0	79.0	79.0
17.5°	429.0	431.0	429.0	367.0	249.0	134.0	81.0	73.0	71.0	71.0	71.0
20°	453.0	451.0	448.0	331.0	181.0	84.0	70.0	68.0	66.0	65.0	65.0
22.5°	477.1	475.1	455.0	285.0	113.0	69.0	66.0	62.0	59.0	58.0	58.0
25°	500.1	500.1	442.0	226.0	77.0	65.0	60.0	56.0	53.0	50.0	50.0
27.5°	529.1	531.1	421.0	158.0	65.0	60.0	54.0	48.0	44.0	42.0	42.0
30°	562.1	565.1	387.0	103.0	59.0	53.0	47.0	40.0	34.0	32.0	31.0
32.5°	601.1	604.1	348.0	68.0	53.0	46.0	39.0	30.0	24.0	23.0	22.0
35°	651.1	644.1	301.0	54.0	46.0	39.0	30.0	21.0	17.0	16.0	16.0
37.5°	713.1	698.1	247.0	47.0	39.0	31.0	22.0	14.0	11.0	11.0	10.0
40°	784.1	742.1	191.0	42.0	33.0	24.0	14.0	9.0	7.0	7.0	7.0
42.5°	862.1	779.1	136.0	37.0	27.0	17.0	9.0	5.0	4.0	4.0	4.0
45°	952.1	813.1	93.0	32.0	23.0	12.0	5.0	2.0	2.0	2.0	2.0
47.5°	1042.1	835.1	62.0	28.0	17.0	7.0	3.0	1.0	1.0	1.0	1.0
50°	1133.1	852.1	48.0	24.0	12.0	4.0	1.0	0.0	0.0	0.0	0.0
52.5°	1214.1	864.1	39.0	20.0	8.0	3.0	1.0	0.0	0.0	0.0	0.0
55°	1284.1	865.1	34.0	16.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
57.5°	1355.1	857.1	29.0	12.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0
60°	1398.1	836.1	23.0	9.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	1424.2	801.1	18.0	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	1409.1	757.1	13.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1339.1	689.1	9.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
69°	1256.1	627.1	8.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1183.1	579.1	7.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	881.1	373.0	6.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	495.1	125.0	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	186.0	32.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	41.0	8.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)