

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: P594960

Luminaire Tested: **IST-PA1A-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594960
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-735-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 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: 2797 lumens
Efficiency: N/A
Efficacy: 97.1 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

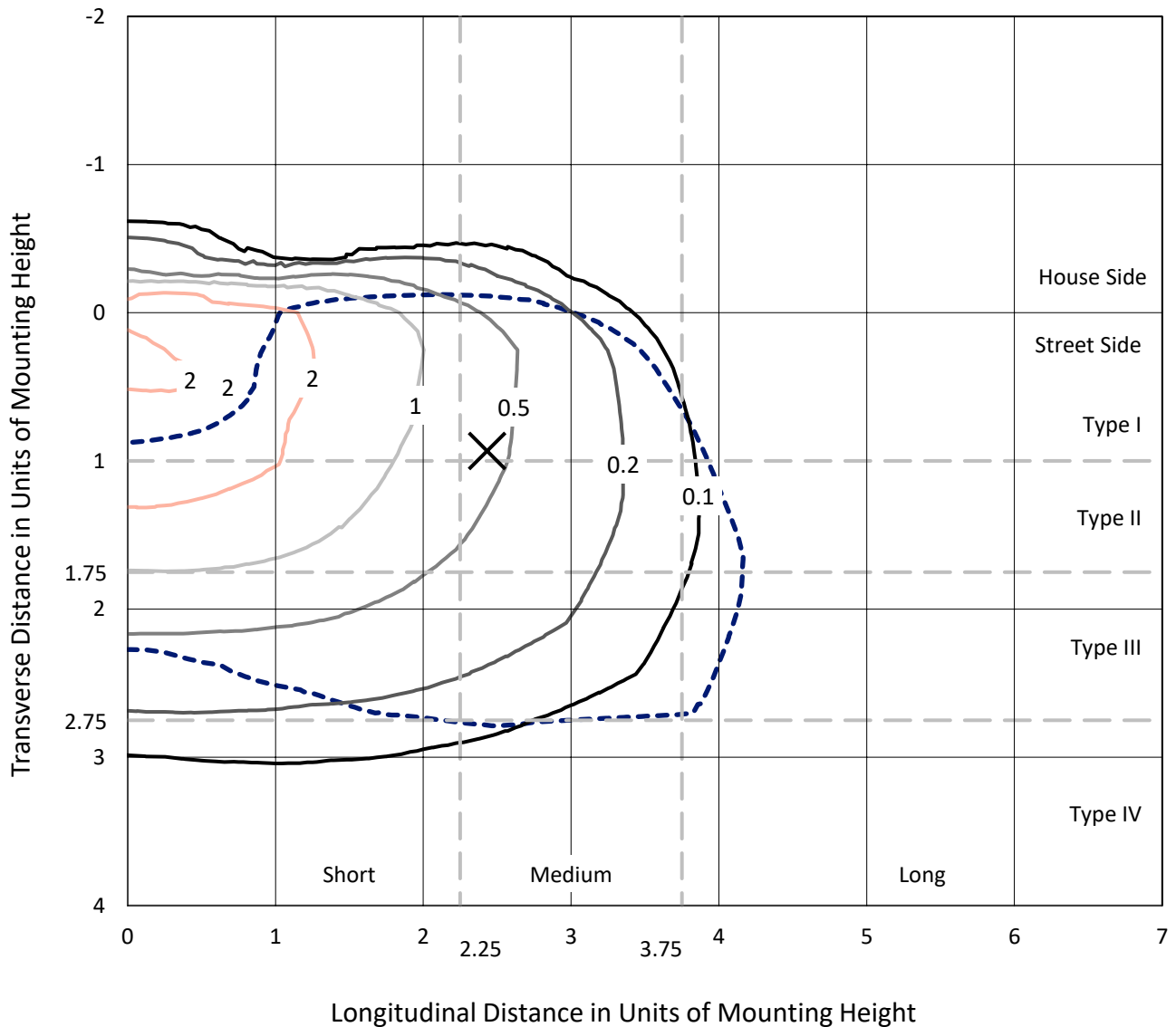
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

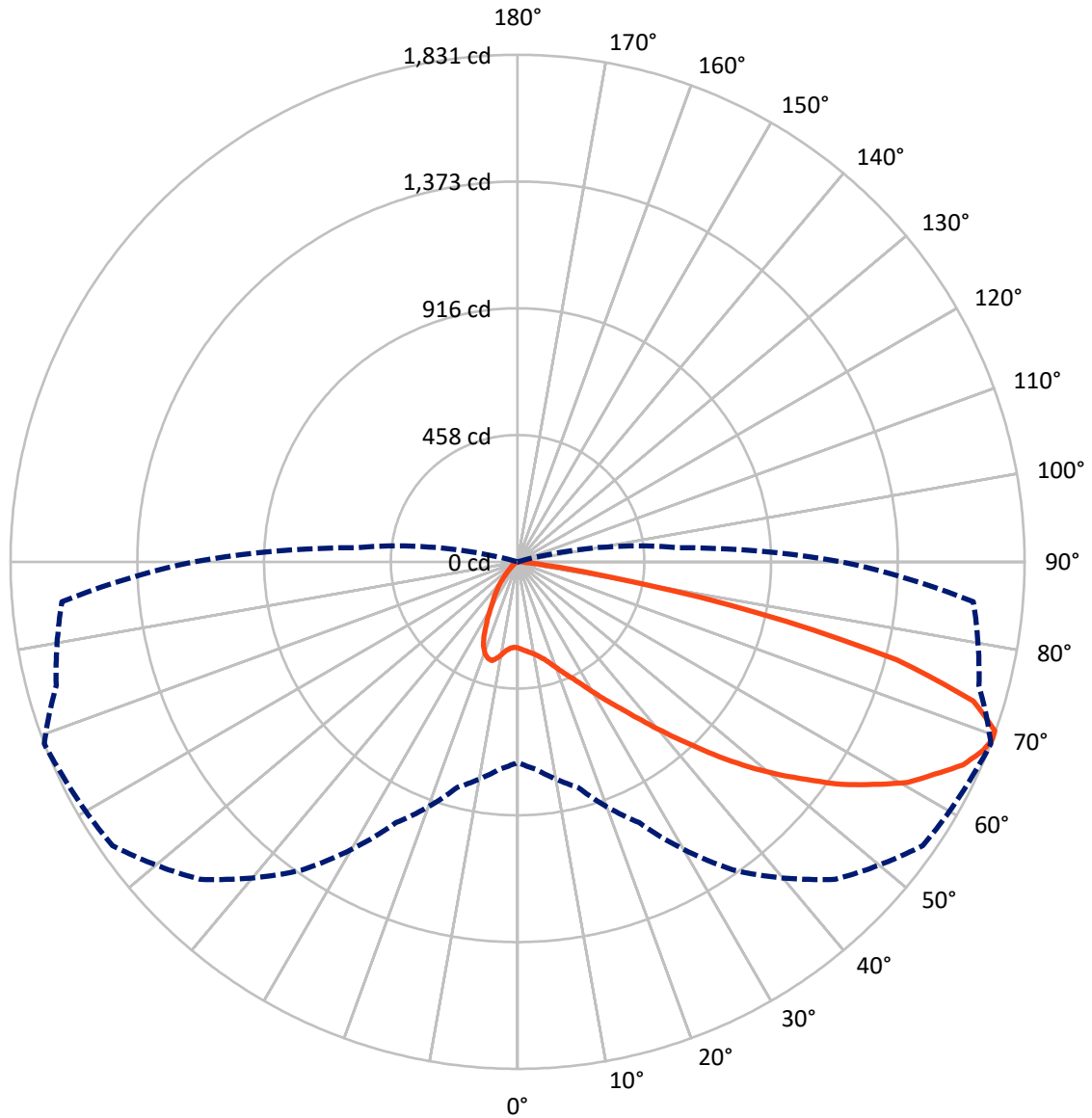
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.7 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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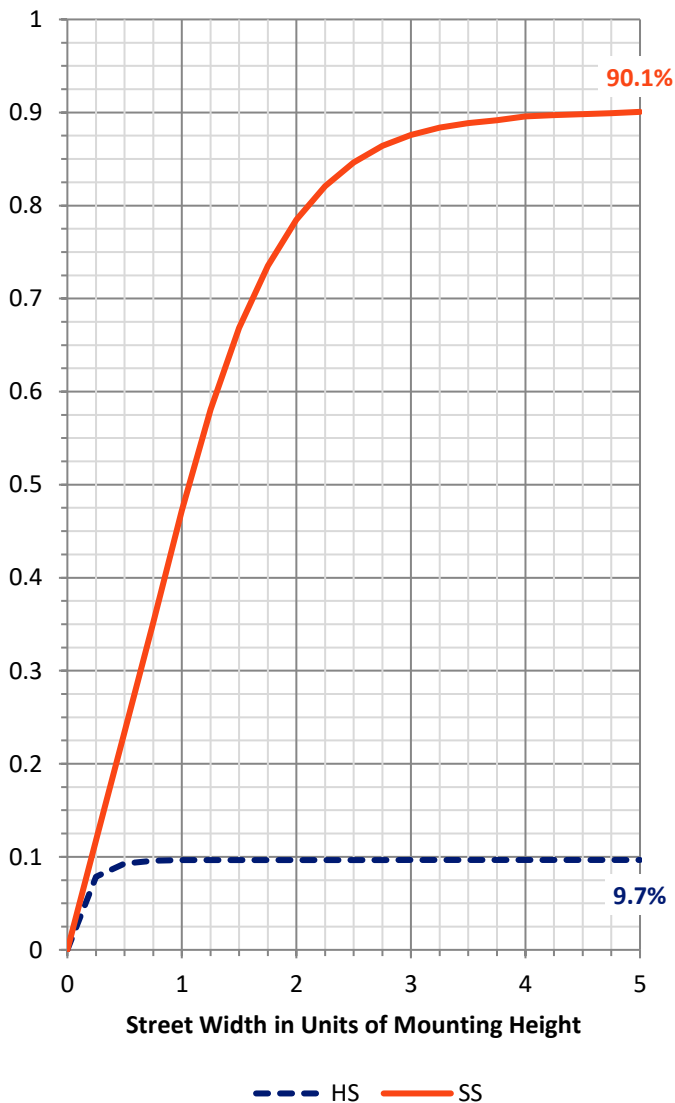
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	272.5	0.0	272.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2524.5	0.0	2524.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	2797.0	0.0	2797.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	1.1
10°-20°	78.5	2.8
20°-30°	130.7	4.7
30°-40°	235.3	8.4
40°-50°	426.6	15.3
50°-60°	666.7	23.8
60°-70°	771.3	27.6
70°-80°	431.4	15.4
80°-90°	26.9	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°	2797.0	100.0
0°-180°	2797.0	100.0

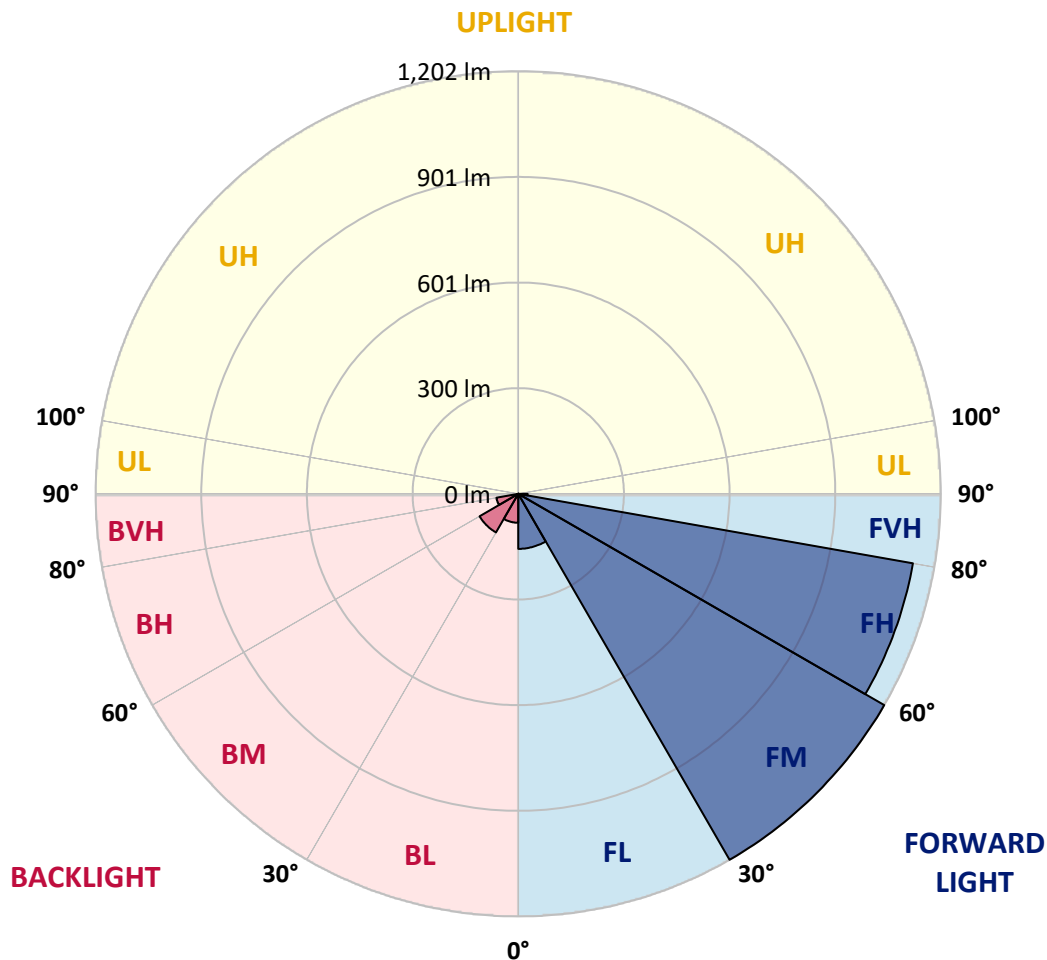


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.5	5.6			
FM (30°-60°)	1201.7	43.0			
FH (60°-80°)	1139.6	40.7			G1/1800
FVH (80°-90°)	26.7	1.0			G1/100
BL (0°-30°)	82.4	2.9	B0/110		
BM (30°-60°)	126.9	4.5	B0/220		
BH (60°-80°)	63.1	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°	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1
2.5°	322.3	322.3	322.3	320.4	321.4	320.4	319.5	316.7	317.6	316.7	313.9
5°	311.1	312.1	314.8	316.7	321.4	323.2	324.2	324.2	323.2	321.4	319.5
7.5°	289.7	289.7	292.5	298.1	307.4	317.6	326.0	330.7	331.6	331.6	328.8
10°	284.1	284.1	287.8	291.6	300.9	313.0	326.0	337.2	339.1	340.9	340.0
12.5°	281.3	282.2	286.0	292.5	304.6	315.8	329.8	345.6	351.2	355.8	356.8
15°	285.0	285.0	288.8	295.3	309.3	325.1	342.8	360.5	366.1	372.6	377.3
17.5°	290.6	292.5	294.4	300.9	313.9	333.5	356.8	380.1	386.6	395.0	398.7
20°	299.9	299.9	301.8	307.4	321.4	344.7	377.3	405.2	410.8	416.4	421.0
22.5°	311.1	312.1	312.1	316.7	332.5	357.7	395.0	429.4	438.7	441.5	443.4
25°	344.7	342.8	336.3	333.5	345.6	372.6	416.4	458.3	468.5	471.3	467.6
27.5°	414.5	407.1	389.4	370.7	368.9	395.9	445.3	494.6	505.8	506.7	493.7
30°	502.1	503.0	474.1	434.1	407.1	421.0	476.9	540.3	551.4	546.8	526.3
32.5°	610.1	605.5	584.1	526.3	472.3	460.2	511.4	587.8	600.8	593.4	566.4
35°	702.4	705.1	679.1	627.8	559.8	520.7	553.3	640.9	656.7	643.7	610.1
37.5°	779.7	783.4	767.6	725.6	665.1	603.6	608.3	703.3	724.7	711.7	669.7
40°	865.4	868.2	861.6	816.0	762.0	702.4	681.9	775.0	803.9	786.2	742.4
42.5°	959.4	969.7	958.5	922.2	866.3	815.1	784.3	862.6	891.4	880.3	821.6
45°	1088.0	1088.9	1075.9	1039.6	981.8	939.9	902.6	955.7	993.0	979.0	910.1
47.5°	1183.0	1189.5	1182.1	1156.9	1110.3	1082.4	1031.2	1058.2	1097.3	1079.6	1001.4
50°	1255.7	1273.4	1266.8	1274.3	1251.0	1238.9	1160.6	1164.4	1202.6	1187.7	1094.5
52.5°	1295.7	1318.1	1319.9	1358.1	1377.7	1407.5	1286.4	1280.8	1305.0	1292.0	1189.5
55°	1290.1	1295.7	1342.3	1412.2	1488.5	1556.5	1409.4	1386.1	1419.6	1383.3	1290.1
57.5°	1236.1	1250.1	1332.0	1418.7	1553.7	1652.5	1515.6	1489.5	1517.4	1469.0	1393.5
60°	1158.8	1179.3	1284.5	1408.4	1591.9	1710.2	1618.9	1592.9	1618.0	1559.3	1510.9
62.5°	1088.9	1098.2	1195.1	1365.6	1569.6	1707.4	1699.1	1674.8	1689.7	1628.3	1611.5
65°	989.3	993.0	1088.9	1288.3	1520.2	1688.8	1742.8	1752.2	1768.0	1686.0	1683.2
67.5°	835.6	843.9	939.0	1153.2	1438.2	1652.5	1777.3	1795.9	1814.6	1716.8	1696.3
69°	724.7	751.7	843.0	1039.6	1359.1	1621.7	1786.6	1816.4	1831.3	1725.1	1652.5
70°	634.4	657.6	762.9	952.0	1289.2	1587.3	1793.1	1813.6	1828.5	1707.4	1580.8
72.5°	318.6	348.4	492.8	694.9	1024.7	1429.9	1759.6	1737.2	1721.4	1570.5	1279.0
75°	123.0	127.6	211.5	395.9	640.9	1049.8	1502.5	1460.6	1414.0	1191.4	758.2
77.5°	68.0	67.1	92.2	175.1	272.9	513.3	1016.3	949.2	884.9	639.9	307.4
80°	28.9	30.7	40.1	83.8	143.5	177.9	493.7	438.7	349.3	203.1	73.6
82.5°	17.7	18.6	27.9	51.2	99.7	68.0	160.2	136.9	100.6	55.0	17.7
85°	5.6	6.5	19.6	34.5	48.4	27.9	36.3	31.7	27.9	23.3	5.6
87.5°	0.9	0.9	7.5	18.6	13.0	4.7	3.7	6.5	10.2	11.2	1.9
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°	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1
2.5°	313.0	311.1	309.3	308.3	308.3	306.5	305.5	304.6	304.6	303.7	303.7
5°	316.7	314.8	313.0	312.1	310.2	309.3	309.3	309.3	308.3	309.3	310.2
7.5°	326.0	323.2	322.3	321.4	321.4	318.6	313.9	301.8	289.7	286.0	282.2
10°	339.1	338.1	338.1	338.1	331.6	307.4	273.9	244.1	228.2	215.2	215.2
12.5°	357.7	357.7	356.8	354.0	320.4	261.8	209.6	164.9	138.8	123.9	125.8
15°	378.2	377.3	379.1	361.4	282.2	202.1	126.7	89.4	75.5	73.6	73.6
17.5°	399.6	401.5	399.6	341.9	231.9	124.8	75.5	68.0	66.1	66.1	66.1
20°	422.0	420.1	417.3	308.3	168.6	78.2	65.2	63.3	61.5	60.5	60.5
22.5°	444.3	442.5	423.8	265.5	105.3	64.3	61.5	57.8	55.0	54.0	54.0
25°	465.8	465.8	411.7	210.5	71.7	60.5	55.9	52.2	49.4	46.6	46.6
27.5°	492.8	494.6	392.2	147.2	60.5	55.9	50.3	44.7	41.0	39.1	39.1
30°	523.5	526.3	360.5	95.9	55.0	49.4	43.8	37.3	31.7	29.8	28.9
32.5°	559.8	562.6	324.2	63.3	49.4	42.8	36.3	27.9	22.4	21.4	20.5
35°	606.4	599.9	280.4	50.3	42.8	36.3	27.9	19.6	15.8	14.9	14.9
37.5°	664.2	650.2	230.1	43.8	36.3	28.9	20.5	13.0	10.2	10.2	9.3
40°	730.3	691.2	177.9	39.1	30.7	22.4	13.0	8.4	6.5	6.5	6.5
42.5°	803.0	725.6	126.7	34.5	25.2	15.8	8.4	4.7	3.7	3.7	3.7
45°	886.8	757.3	86.6	29.8	21.4	11.2	4.7	1.9	1.9	1.9	1.9
47.5°	970.6	777.8	57.8	26.1	15.8	6.5	2.8	0.9	0.9	0.9	0.9
50°	1055.4	793.6	44.7	22.4	11.2	3.7	0.9	0.0	0.0	0.0	0.0
52.5°	1130.8	804.8	36.3	18.6	7.5	2.8	0.9	0.0	0.0	0.0	0.0
55°	1196.0	805.7	31.7	14.9	5.6	1.9	0.0	0.0	0.0	0.0	0.0
57.5°	1262.2	798.3	27.0	11.2	3.7	0.9	0.0	0.0	0.0	0.0	0.0
60°	1302.2	778.7	21.4	8.4	2.8	0.9	0.0	0.0	0.0	0.0	0.0
62.5°	1326.5	746.1	16.8	5.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0
65°	1312.5	705.1	12.1	3.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	1247.3	641.8	8.4	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
69°	1170.0	584.1	7.5	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
70°	1102.0	539.3	6.5	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	820.7	347.4	5.6	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	461.1	116.4	3.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	173.3	29.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.2	7.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)