

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: P595086

Luminaire Tested: **IST-PA1B-827-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595086
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-PA1B-827-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 450mA 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: 2769 lumens
Efficiency: N/A
Efficacy: 76.1 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): 36.4
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

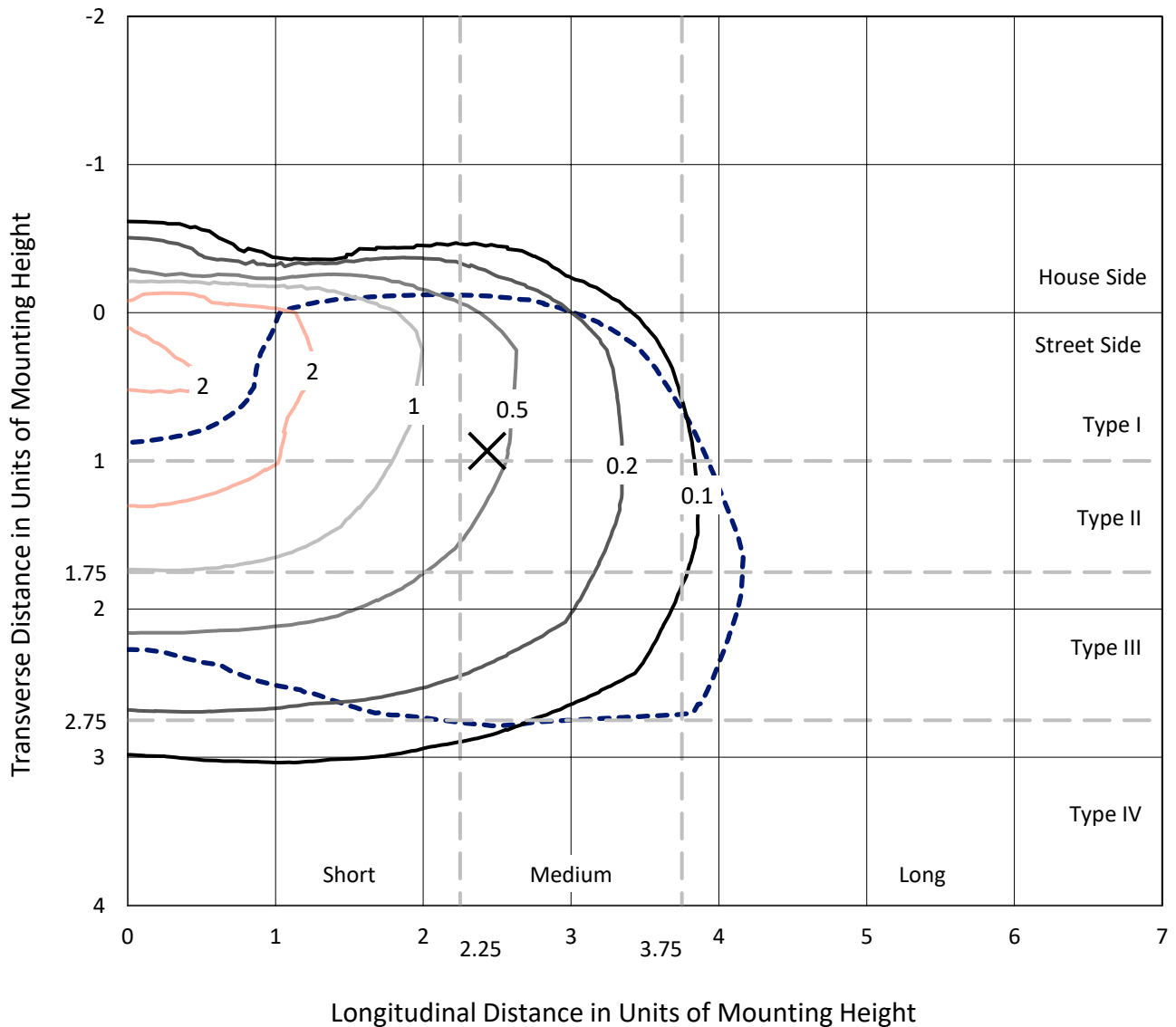




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Iso-Footcandle Lines of Horizontal Illumination

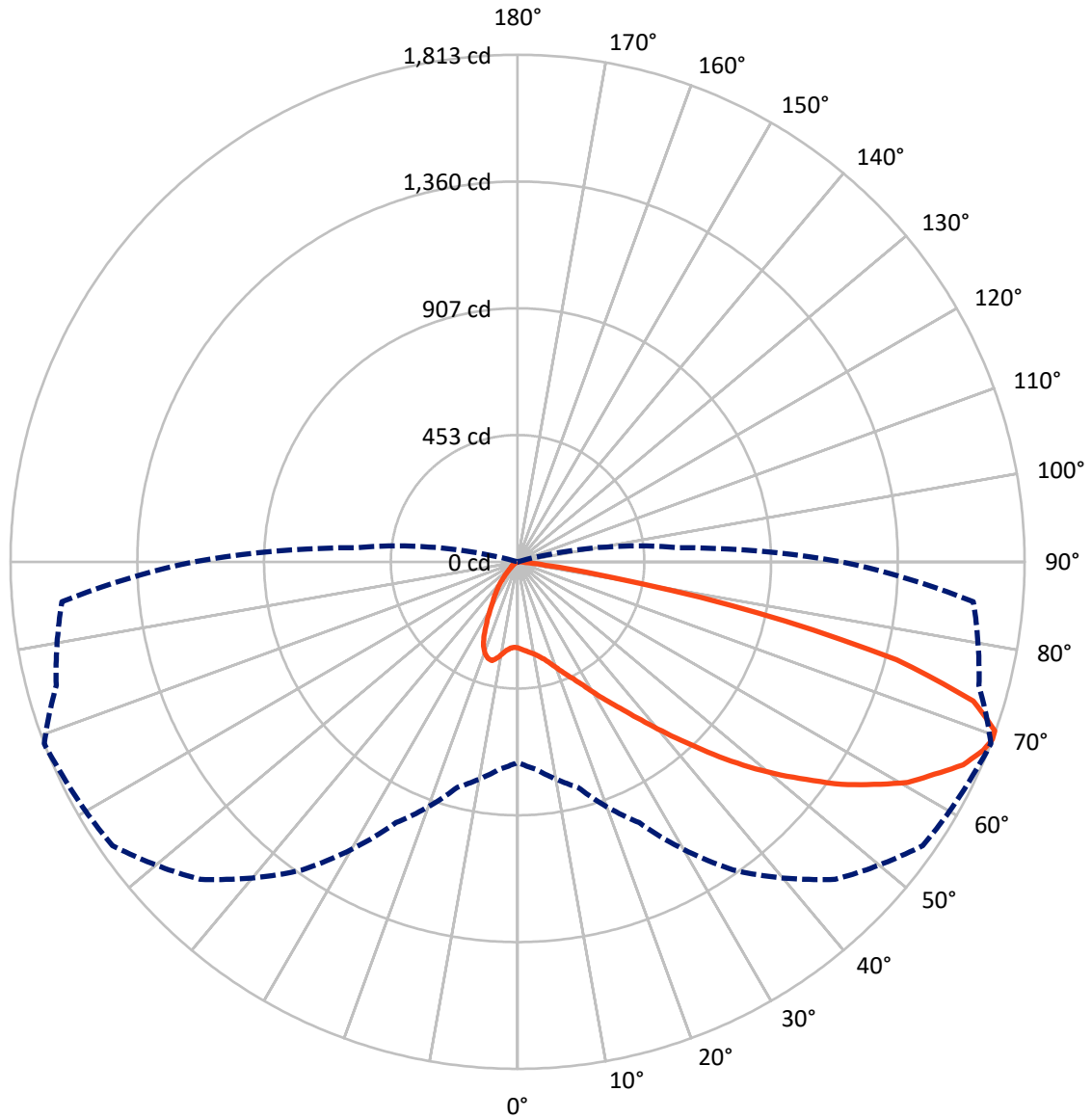
✕ Max cd
 - - - 1/2 Max cd



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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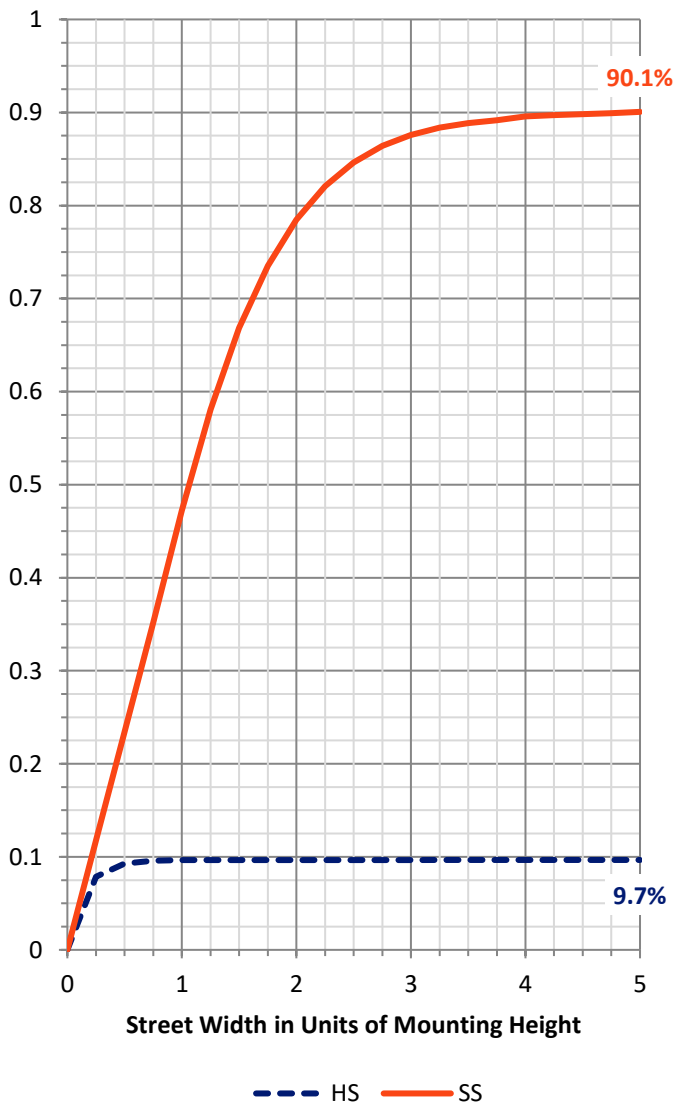
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	269.8	0.0	269.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2499.2	0.0	2499.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	2769.0	0.0	2769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.4	1.1
10°-20°	77.7	2.8
20°-30°	129.4	4.7
30°-40°	232.9	8.4
40°-50°	422.3	15.3
50°-60°	660.0	23.8
60°-70°	763.6	27.6
70°-80°	427.0	15.4
80°-90°	26.7	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°	2769.0	100.0
0°-180°	2769.0	100.0

Coefficient of Utilization

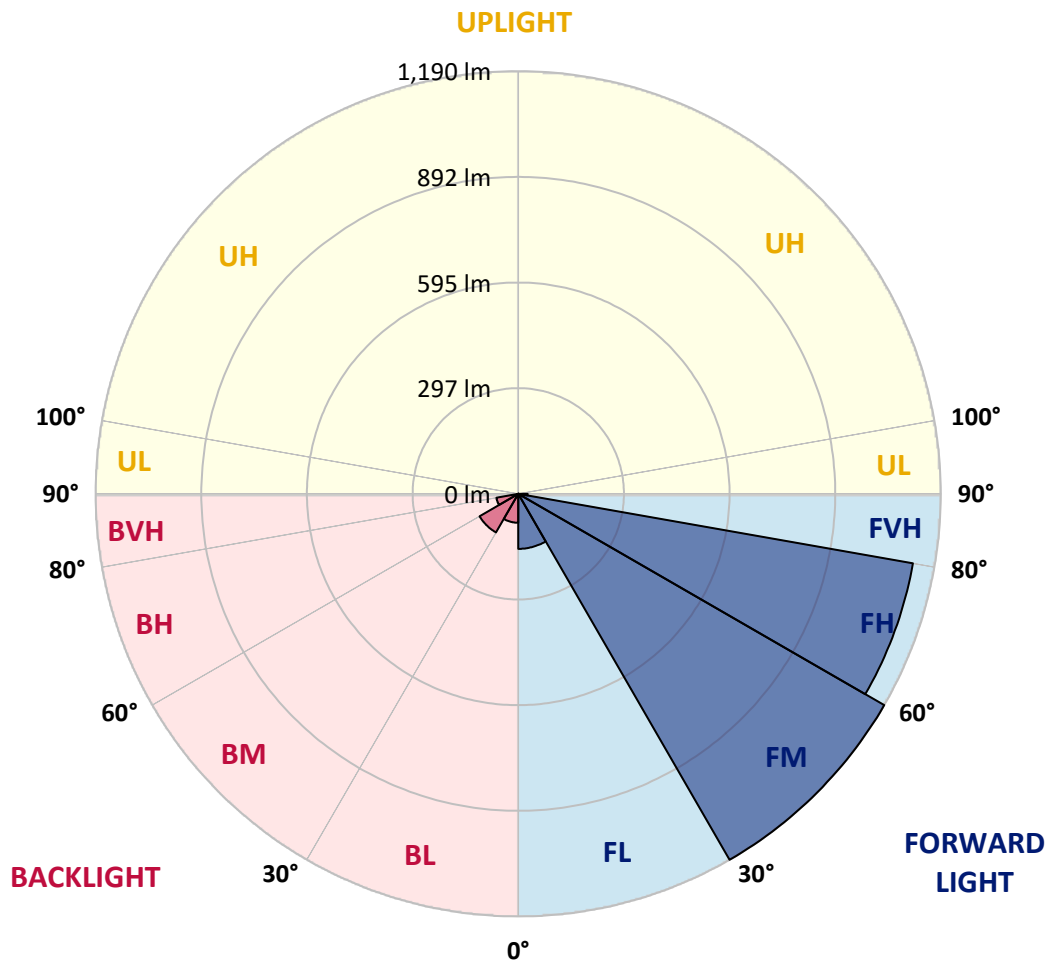


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.9	5.6			
FM (30°-60°)	1189.6	43.0			
FH (60°-80°)	1128.2	40.7			G1/1800
FVH (80°-90°)	26.5	1.0			G1/100
BL (0°-30°)	81.5	2.9	B0/110		
BM (30°-60°)	125.6	4.5	B0/220		
BH (60°-80°)	62.5	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°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0
2.5°	319.1	319.1	319.1	317.2	318.2	317.2	316.3	313.5	314.5	313.5	310.8
5°	308.0	308.9	311.7	313.5	318.2	320.0	320.9	320.9	320.0	318.2	316.3
7.5°	286.8	286.8	289.6	295.1	304.3	314.5	322.8	327.4	328.3	328.3	325.5
10°	281.3	281.3	285.0	288.6	297.9	309.9	322.8	333.8	335.7	337.5	336.6
12.5°	278.5	279.4	283.1	289.6	301.6	312.6	326.5	342.1	347.7	352.3	353.2
15°	282.2	282.2	285.9	292.3	306.2	321.8	339.4	356.9	362.4	368.9	373.5
17.5°	287.7	289.6	291.4	297.9	310.8	330.1	353.2	376.2	382.7	391.0	394.7
20°	296.9	296.9	298.8	304.3	318.2	341.2	373.5	401.1	406.7	412.2	416.8
22.5°	308.0	308.9	308.9	313.5	329.2	354.1	391.0	425.1	434.3	437.1	439.0
25°	341.2	339.4	332.9	330.1	342.1	368.9	412.2	453.7	463.9	466.6	462.9
27.5°	410.4	403.0	385.5	367.0	365.2	391.9	440.8	489.7	500.7	501.7	488.8
30°	497.1	498.0	469.4	429.7	403.0	416.8	472.2	534.9	545.9	541.3	521.0
32.5°	604.0	599.4	578.2	521.0	467.5	455.6	506.3	581.9	594.8	587.4	560.7
35°	695.3	698.1	672.3	621.5	554.2	515.5	547.8	634.5	650.1	637.2	604.0
37.5°	771.9	775.5	759.9	718.4	658.4	597.6	602.2	696.2	717.5	704.5	663.0
40°	856.7	859.5	853.0	807.8	754.3	695.3	675.0	767.3	795.8	778.3	735.0
42.5°	949.8	960.0	948.9	913.0	857.6	806.9	776.5	853.9	882.5	871.5	813.4
45°	1077.1	1078.0	1065.1	1029.1	972.0	930.5	893.6	946.2	983.0	969.2	901.0
47.5°	1171.2	1177.6	1170.2	1145.3	1099.2	1071.6	1020.8	1047.6	1086.3	1068.8	991.3
50°	1243.1	1260.6	1254.2	1261.5	1238.5	1226.5	1149.0	1152.7	1190.5	1175.8	1083.6
52.5°	1282.7	1304.9	1306.7	1344.5	1363.9	1393.4	1273.5	1268.0	1292.0	1279.1	1177.6
55°	1277.2	1282.7	1328.9	1398.0	1473.6	1541.0	1395.3	1372.2	1405.4	1369.4	1277.2
57.5°	1223.7	1237.6	1318.7	1404.5	1538.2	1635.9	1500.4	1474.6	1502.2	1454.3	1379.6
60°	1147.2	1167.5	1271.7	1394.3	1576.0	1693.1	1602.7	1576.9	1601.8	1543.7	1495.8
62.5°	1078.0	1087.2	1183.2	1351.9	1553.9	1690.3	1682.0	1658.1	1672.8	1612.0	1595.4
65°	979.4	983.0	1078.0	1275.4	1505.0	1671.9	1725.4	1734.6	1750.3	1669.1	1666.4
67.5°	827.2	835.5	929.6	1141.7	1423.8	1635.9	1759.5	1778.0	1796.4	1699.6	1679.3
69°	717.5	744.2	834.6	1029.1	1345.5	1605.5	1768.7	1798.2	1813.0	1707.9	1635.9
70°	628.0	651.1	755.3	942.5	1276.3	1571.4	1775.2	1795.5	1810.2	1690.3	1564.9
72.5°	315.4	344.9	487.8	687.9	1014.4	1415.5	1742.0	1719.9	1704.2	1554.8	1266.1
75°	121.7	126.3	209.3	391.9	634.5	1039.3	1487.5	1446.0	1399.9	1179.5	750.7
77.5°	67.3	66.4	91.3	173.4	270.2	508.1	1006.1	939.7	876.1	633.5	304.3
80°	28.6	30.4	39.7	83.0	142.0	176.1	488.8	434.3	345.8	201.0	72.9
82.5°	17.5	18.4	27.7	50.7	98.7	67.3	158.6	135.6	99.6	54.4	17.5
85°	5.5	6.5	19.4	34.1	48.0	27.7	36.0	31.4	27.7	23.1	5.5
87.5°	0.9	0.9	7.4	18.4	12.9	4.6	3.7	6.5	10.1	11.1	1.8
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°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0	308.0
2.5°	309.9	308.0	306.2	305.2	305.2	303.4	302.5	301.6	301.6	300.6	300.6
5°	313.5	311.7	309.9	308.9	307.1	306.2	306.2	306.2	305.2	306.2	307.1
7.5°	322.8	320.0	319.1	318.2	318.2	315.4	310.8	298.8	286.8	283.1	279.4
10°	335.7	334.7	334.7	334.7	328.3	304.3	271.1	241.6	225.9	213.0	213.0
12.5°	354.1	354.1	353.2	350.4	317.2	259.1	207.5	163.2	137.4	122.6	124.5
15°	374.4	373.5	375.3	357.8	279.4	200.1	125.4	88.5	74.7	72.9	72.9
17.5°	395.6	397.5	395.6	338.4	229.6	123.6	74.7	67.3	65.5	65.5	65.5
20°	417.7	415.9	413.1	305.2	166.9	77.5	64.6	62.7	60.9	59.9	59.9
22.5°	439.9	438.0	419.6	262.8	104.2	63.6	60.9	57.2	54.4	53.5	53.5
25°	461.1	461.1	407.6	208.4	71.0	59.9	55.3	51.6	48.9	46.1	46.1
27.5°	487.8	489.7	388.2	145.7	59.9	55.3	49.8	44.3	40.6	38.7	38.7
30°	518.3	521.0	356.9	95.0	54.4	48.9	43.3	36.9	31.4	29.5	28.6
32.5°	554.2	557.0	320.9	62.7	48.9	42.4	36.0	27.7	22.1	21.2	20.3
35°	600.3	593.9	277.6	49.8	42.4	36.0	27.7	19.4	15.7	14.8	14.8
37.5°	657.5	643.7	227.8	43.3	36.0	28.6	20.3	12.9	10.1	10.1	9.2
40°	723.0	684.3	176.1	38.7	30.4	22.1	12.9	8.3	6.5	6.5	6.5
42.5°	794.9	718.4	125.4	34.1	24.9	15.7	8.3	4.6	3.7	3.7	3.7
45°	877.9	749.7	85.8	29.5	21.2	11.1	4.6	1.8	1.8	1.8	1.8
47.5°	960.9	770.0	57.2	25.8	15.7	6.5	2.8	0.9	0.9	0.9	0.9
50°	1044.8	785.7	44.3	22.1	11.1	3.7	0.9	0.0	0.0	0.0	0.0
52.5°	1119.5	796.8	36.0	18.4	7.4	2.8	0.9	0.0	0.0	0.0	0.0
55°	1184.1	797.7	31.4	14.8	5.5	1.8	0.0	0.0	0.0	0.0	0.0
57.5°	1249.5	790.3	26.7	11.1	3.7	0.9	0.0	0.0	0.0	0.0	0.0
60°	1289.2	770.9	21.2	8.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0
62.5°	1313.2	738.7	16.6	5.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
65°	1299.3	698.1	12.0	3.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	1234.8	635.4	8.3	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
69°	1158.3	578.2	7.4	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
70°	1090.9	533.9	6.5	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	812.4	344.0	5.5	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	456.5	115.3	3.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	171.5	29.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.8	7.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.3	1.8	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)