

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: P595032

Luminaire Tested: **IST-PA1B-727-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595032
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-727-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 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: 3150 lumens
Efficiency: N/A
Efficacy: 86.5 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

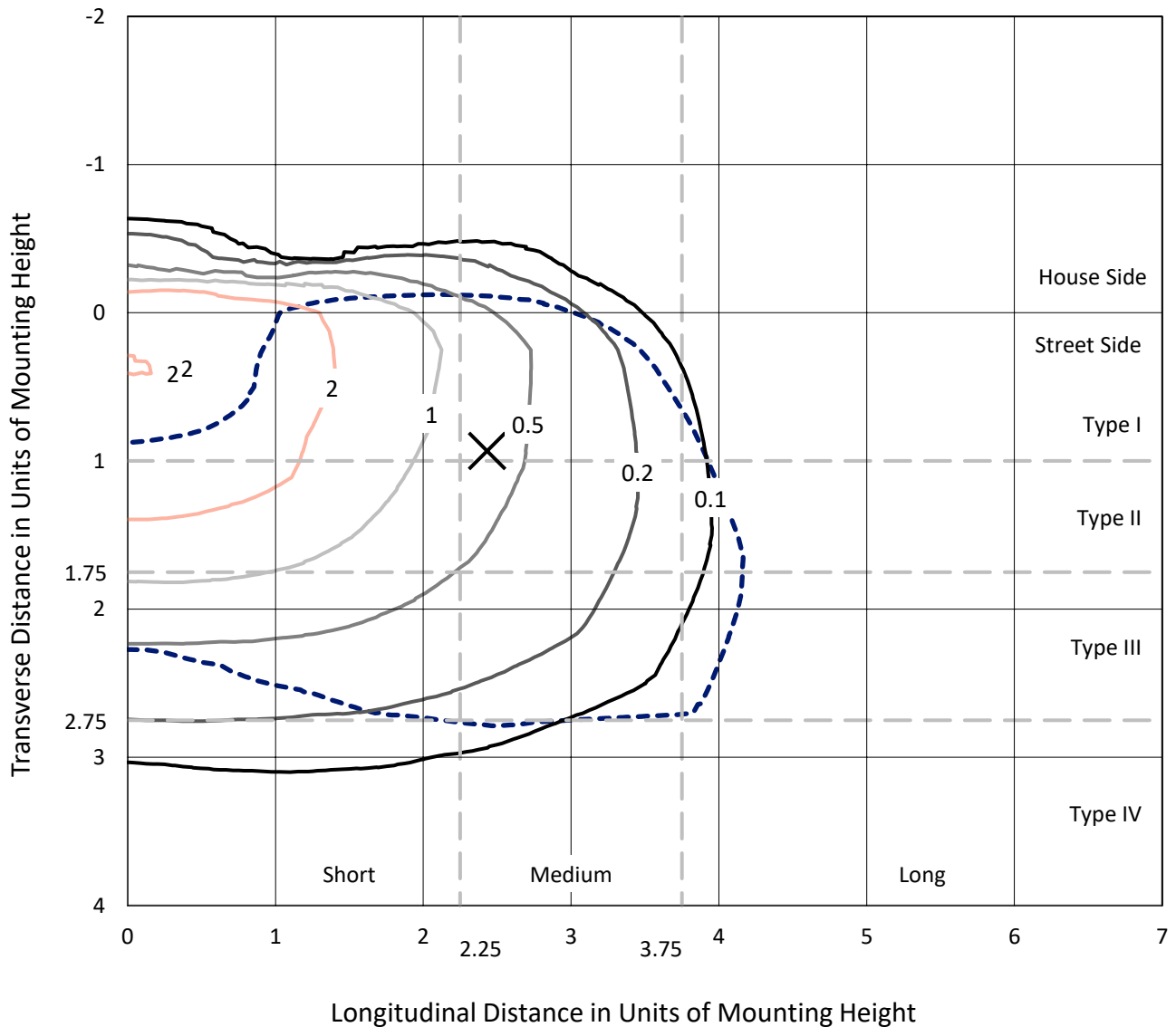
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

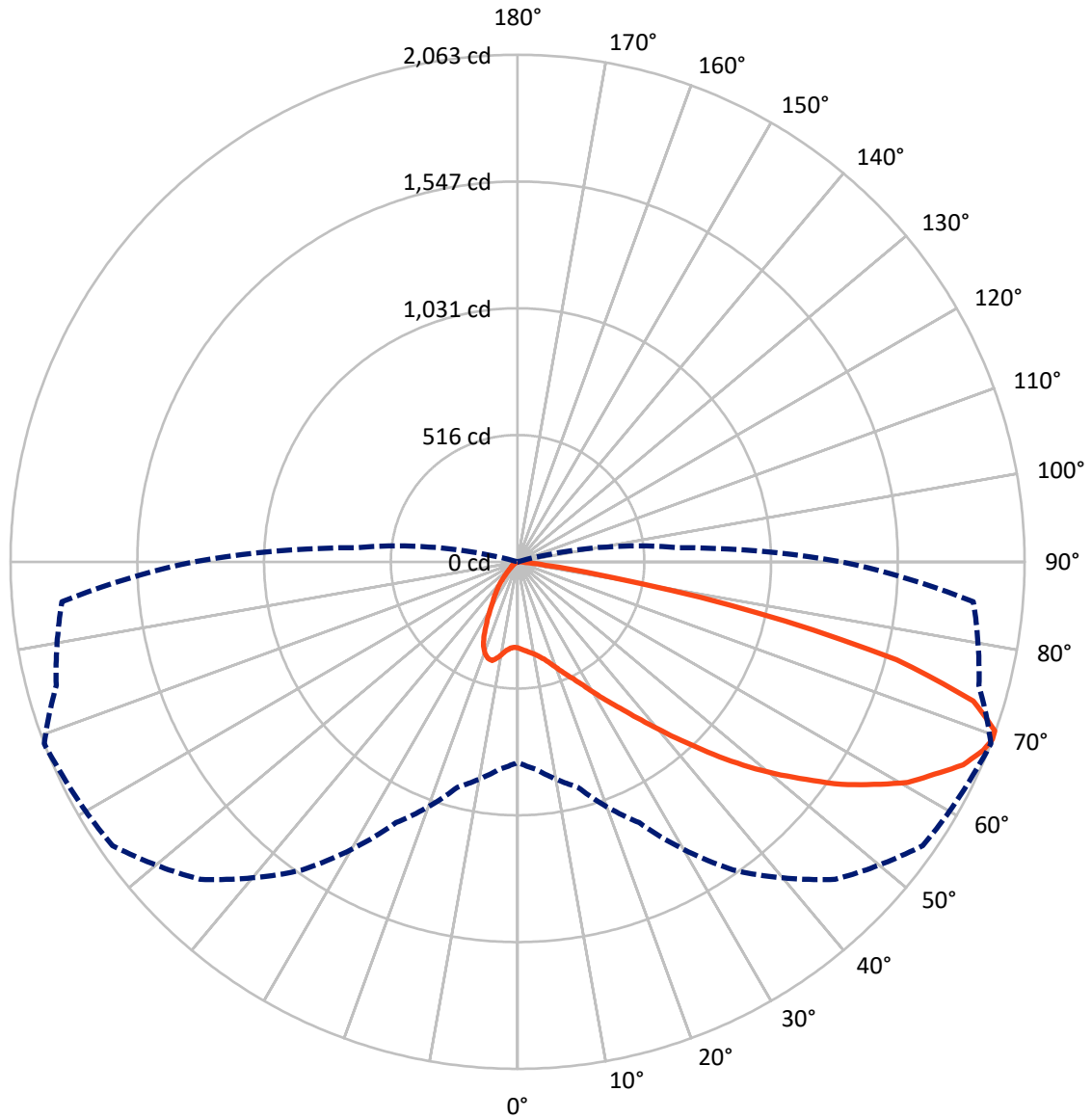
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 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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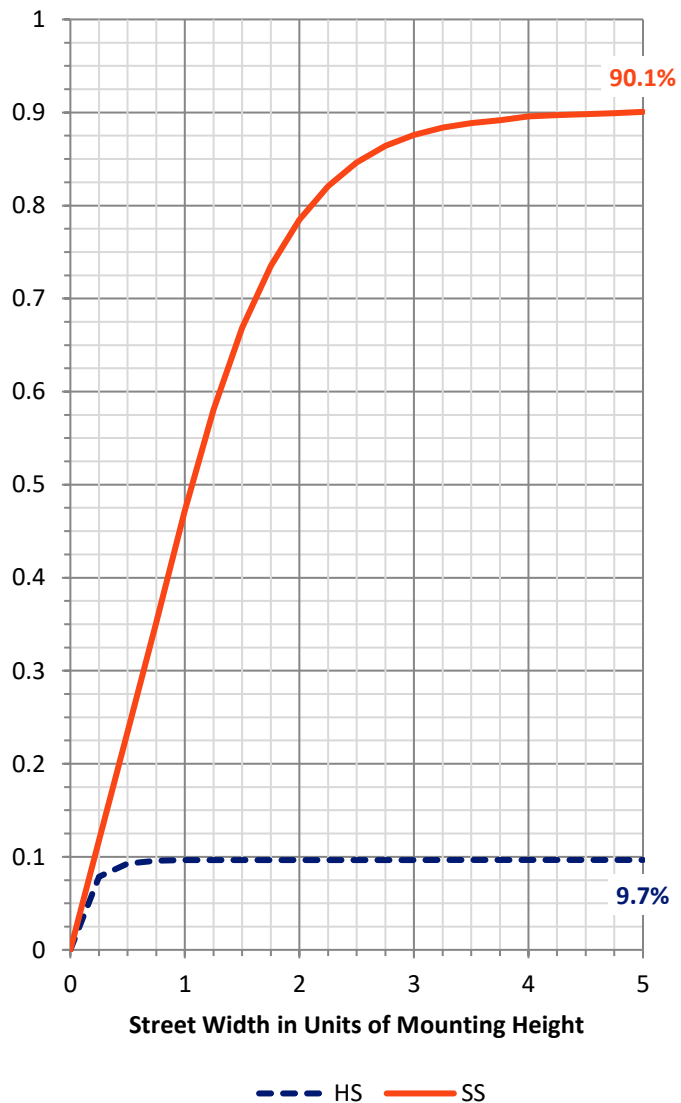
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	306.9	0.0	306.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2843.1	0.0	2843.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	3150.0	0.0	3150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	1.1
10°-20°	88.4	2.8
20°-30°	147.2	4.7
30°-40°	265.0	8.4
40°-50°	480.4	15.3
50°-60°	750.8	23.8
60°-70°	868.7	27.6
70°-80°	485.8	15.4
80°-90°	30.3	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°	3150.0	100.0
0°-180°	3150.0	100.0

Coefficient of Utilization

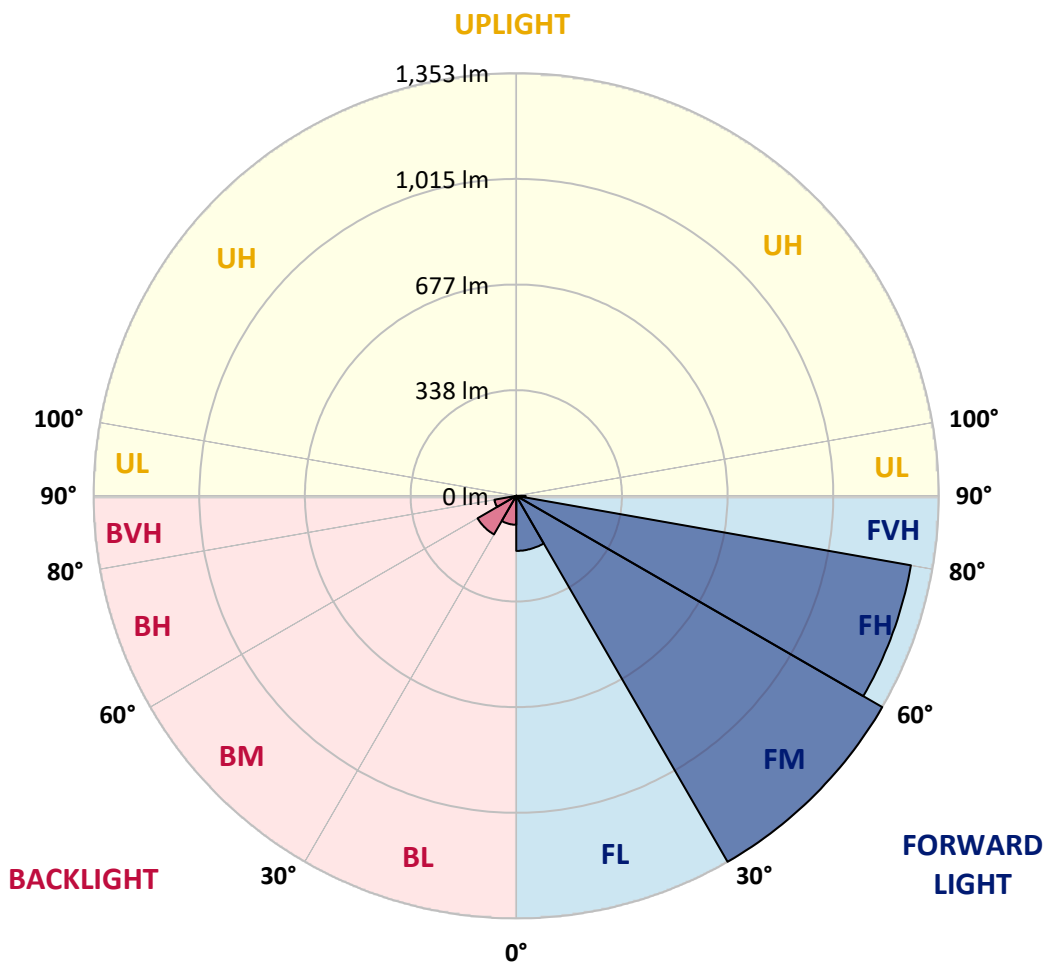


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.2	5.6			
FM (30°-60°)	1353.3	43.0			
FH (60°-80°)	1283.4	40.7			G1/1800
FVH (80°-90°)	30.1	1.0			G1/100
BL (0°-30°)	92.8	2.9	B0/110		
BM (30°-60°)	142.9	4.5	B0/220		
BH (60°-80°)	71.1	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°	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4
2.5°	363.0	363.0	363.0	360.9	361.9	360.9	359.8	356.7	357.7	356.7	353.5
5°	350.4	351.4	354.6	356.7	361.9	364.0	365.1	365.1	364.0	361.9	359.8
7.5°	326.3	326.3	329.4	335.7	346.2	357.7	367.2	372.4	373.5	373.5	370.3
10°	320.0	320.0	324.2	328.4	338.8	352.5	367.2	379.8	381.9	384.0	382.9
12.5°	316.8	317.9	322.1	329.4	343.0	355.6	371.4	389.2	395.5	400.7	401.8
15°	321.0	321.0	325.2	332.6	348.3	366.1	386.1	406.0	412.3	419.6	424.9
17.5°	327.3	329.4	331.5	338.8	353.5	375.6	401.8	428.0	435.4	444.8	449.0
20°	337.8	337.8	339.9	346.2	361.9	388.2	424.9	456.3	462.6	468.9	474.2
22.5°	350.4	351.4	351.4	356.7	374.5	402.8	444.8	483.6	494.1	497.3	499.4
25°	388.2	386.1	378.7	375.6	389.2	419.6	468.9	516.1	527.7	530.8	526.6
27.5°	466.8	458.4	438.5	417.5	415.4	445.9	501.5	557.1	569.6	570.7	556.0
30°	565.4	566.5	534.0	488.9	458.4	474.2	537.1	608.5	621.0	615.8	592.7
32.5°	687.1	681.9	657.8	592.7	531.9	518.2	575.9	662.0	676.6	668.3	637.8
35°	791.0	794.1	764.8	707.1	630.5	586.4	623.1	721.8	739.6	724.9	687.1
37.5°	878.1	882.3	864.4	817.2	749.0	679.8	685.0	792.0	816.2	801.5	754.3
40°	974.6	977.7	970.4	919.0	858.1	791.0	767.9	872.8	905.3	885.4	836.1
42.5°	1080.5	1092.1	1079.5	1038.6	975.6	917.9	883.3	971.4	1004.0	991.4	925.3
45°	1225.3	1226.4	1211.7	1170.8	1105.7	1058.5	1016.5	1076.3	1118.3	1102.6	1024.9
47.5°	1332.3	1339.7	1331.3	1302.9	1250.5	1219.0	1161.3	1191.7	1235.8	1215.9	1127.7
50°	1414.1	1434.1	1426.7	1435.1	1408.9	1395.3	1307.1	1311.3	1354.3	1337.6	1232.6
52.5°	1459.2	1484.4	1486.5	1529.5	1551.6	1585.1	1448.8	1442.5	1469.7	1455.0	1339.7
55°	1453.0	1459.2	1511.7	1590.4	1676.4	1753.0	1587.2	1561.0	1598.8	1557.9	1453.0
57.5°	1392.1	1407.8	1500.2	1597.7	1749.8	1861.0	1706.8	1677.5	1708.9	1654.4	1569.4
60°	1305.0	1328.1	1446.7	1586.2	1792.8	1926.1	1823.3	1793.9	1822.2	1756.1	1701.6
62.5°	1226.4	1236.8	1345.9	1537.9	1767.7	1922.9	1913.5	1886.2	1903.0	1833.8	1814.9
65°	1114.1	1118.3	1226.4	1450.9	1712.1	1901.9	1962.8	1973.3	1991.1	1898.8	1895.7
67.5°	941.0	950.5	1057.5	1298.7	1619.8	1861.0	2001.6	2022.6	2043.6	1933.4	1910.3
69°	816.2	846.6	949.4	1170.8	1530.6	1826.4	2012.1	2045.7	2062.5	1942.9	1861.0
70°	714.4	740.6	859.2	1072.1	1451.9	1787.6	2019.4	2042.5	2059.3	1922.9	1780.3
72.5°	358.8	392.3	555.0	782.6	1154.0	1610.3	1981.7	1956.5	1938.7	1768.7	1440.4
75°	138.5	143.7	238.1	445.9	721.8	1182.3	1692.1	1644.9	1592.5	1341.8	853.9
77.5°	76.6	75.5	103.9	197.2	307.4	578.0	1144.5	1069.0	996.6	720.7	346.2
80°	32.5	34.6	45.1	94.4	161.6	200.4	556.0	494.1	393.4	228.7	82.9
82.5°	19.9	21.0	31.5	57.7	112.2	76.6	180.4	154.2	113.3	61.9	19.9
85°	6.3	7.3	22.0	38.8	54.6	31.5	40.9	35.7	31.5	26.2	6.3
87.5°	1.0	1.0	8.4	21.0	14.7	5.2	4.2	7.3	11.5	12.6	2.1
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°	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4	350.4
2.5°	352.5	350.4	348.3	347.2	347.2	345.1	344.1	343.0	343.0	342.0	342.0
5°	356.7	354.6	352.5	351.4	349.3	348.3	348.3	348.3	347.2	348.3	349.3
7.5°	367.2	364.0	363.0	361.9	361.9	358.8	353.5	339.9	326.3	322.1	317.9
10°	381.9	380.8	380.8	380.8	373.5	346.2	308.4	274.9	257.0	242.3	242.3
12.5°	402.8	402.8	401.8	398.6	360.9	294.8	236.0	185.7	156.3	139.5	141.6
15°	425.9	424.9	427.0	407.0	317.9	227.6	142.7	100.7	85.0	82.9	82.9
17.5°	450.0	452.1	450.0	385.0	261.2	140.6	85.0	76.6	74.5	74.5	74.5
20°	475.2	473.1	470.0	347.2	189.9	88.1	73.4	71.3	69.2	68.2	68.2
22.5°	500.4	498.3	477.3	299.0	118.5	72.4	69.2	65.0	61.9	60.8	60.8
25°	524.5	524.5	463.7	237.1	80.8	68.2	62.9	58.7	55.6	52.5	52.5
27.5°	555.0	557.1	441.7	165.8	68.2	62.9	56.6	50.4	46.2	44.1	44.1
30°	589.6	592.7	406.0	108.1	61.9	55.6	49.3	42.0	35.7	33.6	32.5
32.5°	630.5	633.6	365.1	71.3	55.6	48.3	40.9	31.5	25.2	24.1	23.1
35°	682.9	675.6	315.8	56.6	48.3	40.9	31.5	22.0	17.8	16.8	16.8
37.5°	748.0	732.2	259.1	49.3	40.9	32.5	23.1	14.7	11.5	11.5	10.5
40°	822.5	778.4	200.4	44.1	34.6	25.2	14.7	9.4	7.3	7.3	7.3
42.5°	904.3	817.2	142.7	38.8	28.3	17.8	9.4	5.2	4.2	4.2	4.2
45°	998.7	852.9	97.6	33.6	24.1	12.6	5.2	2.1	2.1	2.1	2.1
47.5°	1093.1	876.0	65.0	29.4	17.8	7.3	3.1	1.0	1.0	1.0	1.0
50°	1188.6	893.8	50.4	25.2	12.6	4.2	1.0	0.0	0.0	0.0	0.0
52.5°	1273.6	906.4	40.9	21.0	8.4	3.1	1.0	0.0	0.0	0.0	0.0
55°	1347.0	907.4	35.7	16.8	6.3	2.1	0.0	0.0	0.0	0.0	0.0
57.5°	1421.5	899.0	30.4	12.6	4.2	1.0	0.0	0.0	0.0	0.0	0.0
60°	1466.6	877.0	24.1	9.4	3.1	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	1493.9	840.3	18.9	6.3	2.1	1.0	0.0	0.0	0.0	0.0	0.0
65°	1478.1	794.1	13.6	4.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1404.7	722.8	9.4	3.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
69°	1317.6	657.8	8.4	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1241.0	607.4	7.3	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	924.2	391.3	6.3	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	519.3	131.1	4.2	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	195.1	33.6	2.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.0	8.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	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)