

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: P595250

Luminaire Tested: **IST-PA1D-827-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1D-827-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4396 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

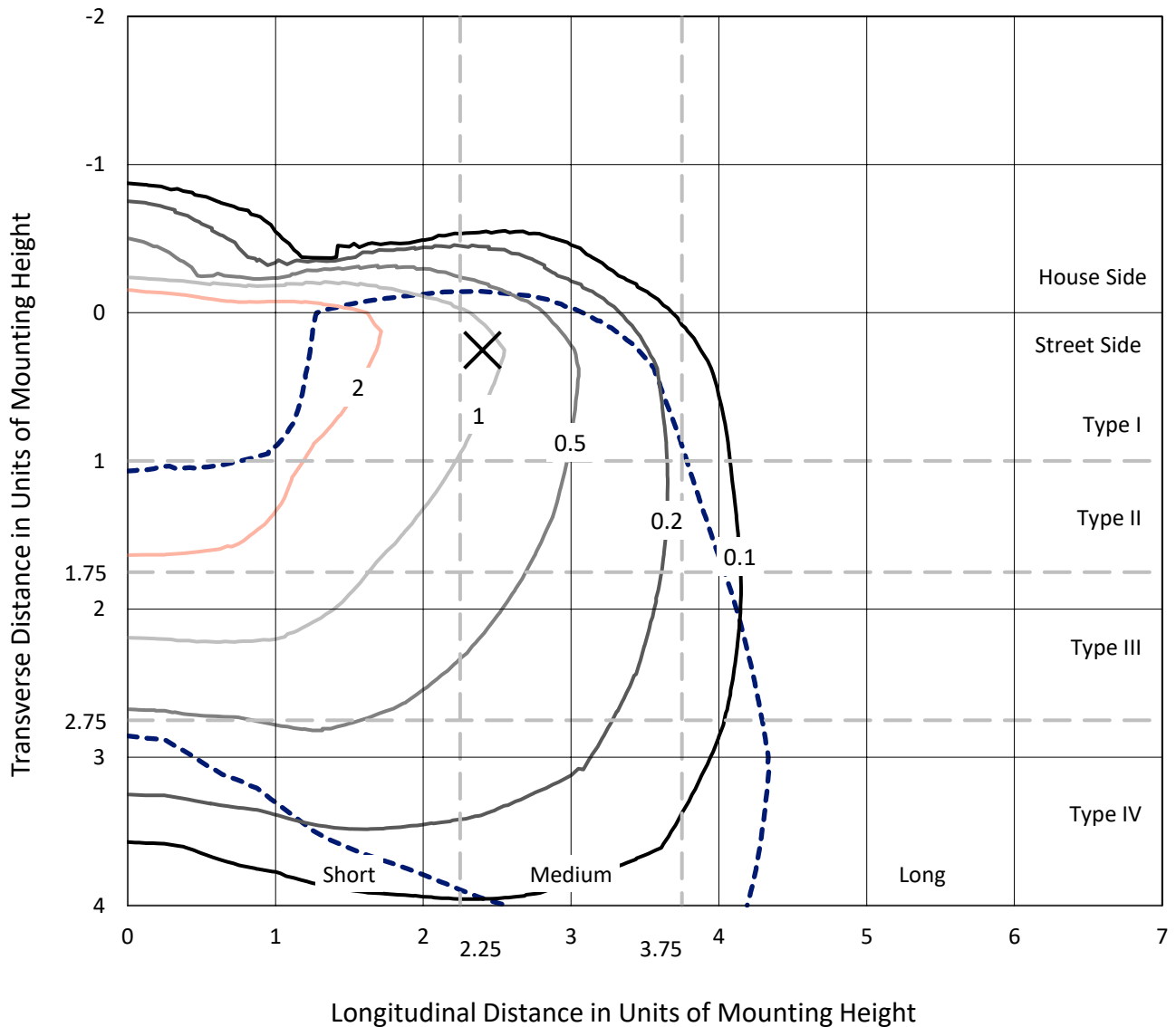
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

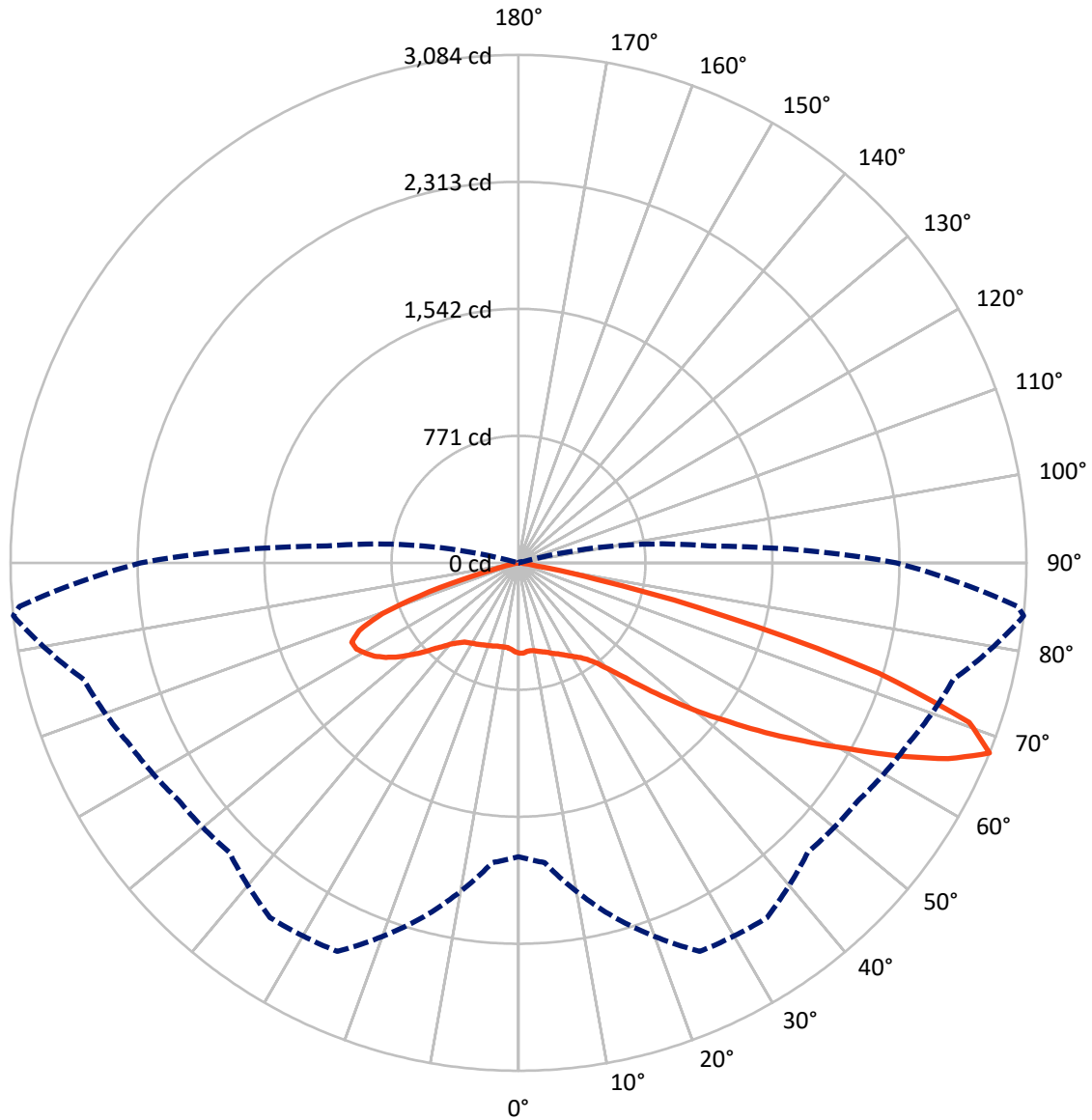
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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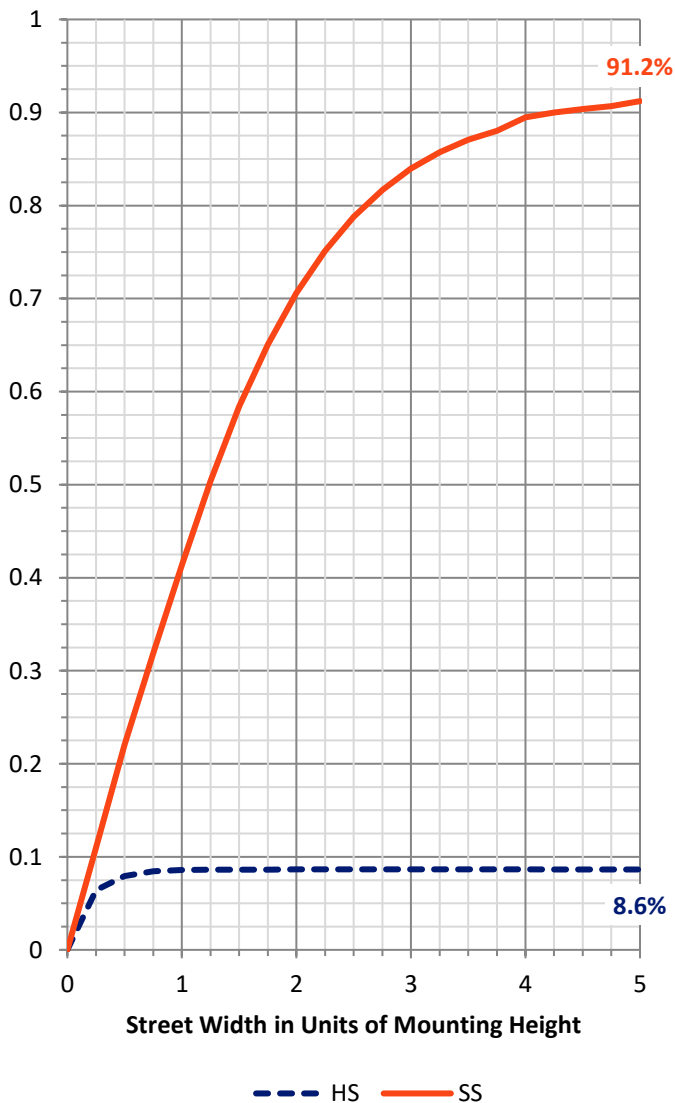
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	382.7	0.0	382.7
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	4013.3	0.0	4013.3
	% Fixture	91.3	0.0	91.3
Total	Lumens	4396.0	0.0	4396.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	1.1
10°-20°	128.4	2.9
20°-30°	205.7	4.7
30°-40°	296.1	6.7
40°-50°	508.1	11.6
50°-60°	887.8	20.2
60°-70°	1271.4	28.9
70°-80°	955.6	21.7
80°-90°	93.8	2.1
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°	4396.0	100.0
0°-180°	4396.0	100.0

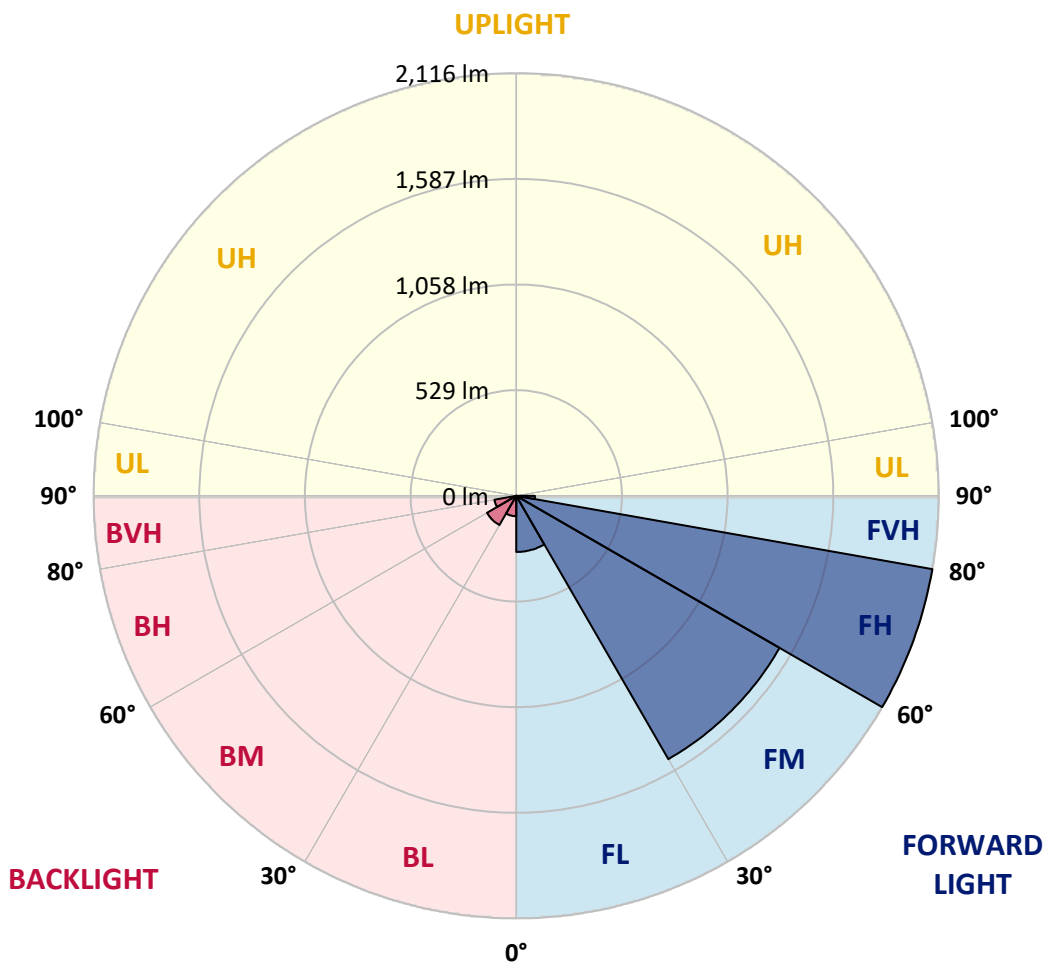


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	281.0	6.4			
FM (30°-60°)	1522.7	34.6			
FH (60°-80°)	2116.0	48.1			G2/5000
FVH (80°-90°)	93.5	2.1			G1/100
BL (0°-30°)	102.2	2.3	B0/110		
BM (30°-60°)	169.3	3.9	B0/220		
BH (60°-80°)	111.0	2.5	B1/500		G1/500
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7
2.5°	578.9	581.8	583.3	575.9	575.9	570.0	561.0	558.1	553.6	549.2	547.7
5°	608.5	613.0	611.5	602.6	598.2	586.3	574.4	562.5	550.7	540.3	540.3
7.5°	642.7	644.2	639.7	624.9	616.0	599.6	581.8	568.5	553.6	538.8	535.8
10°	672.4	670.9	664.9	650.1	633.8	613.0	593.7	578.9	561.0	543.2	541.8
12.5°	693.1	694.6	687.2	666.4	650.1	626.4	607.1	592.2	571.4	552.1	547.7
15°	711.0	715.4	706.5	685.7	662.0	641.2	626.4	607.1	583.3	561.0	558.1
17.5°	727.3	728.8	721.3	697.6	675.3	657.5	641.2	623.4	599.6	571.4	568.5
20°	736.2	740.6	736.2	706.5	685.7	672.4	659.0	641.2	614.5	587.8	584.8
22.5°	742.1	746.6	745.1	712.4	694.6	684.2	672.4	656.0	630.8	599.6	596.7
25°	745.1	748.1	751.0	718.4	703.5	699.1	688.7	673.8	650.1	617.4	614.5
27.5°	749.5	752.5	755.5	725.8	719.9	715.4	712.4	700.6	672.4	638.2	633.8
30°	757.0	761.4	764.4	739.2	739.2	743.6	743.6	727.3	696.1	660.5	657.5
32.5°	765.9	767.4	773.3	752.5	759.9	770.3	767.4	751.0	718.4	685.7	681.3
35°	789.6	789.6	800.0	773.3	782.2	791.1	794.1	782.2	752.5	719.9	718.4
37.5°	847.5	847.5	856.4	813.4	811.9	820.8	831.2	831.2	801.5	771.8	768.8
40°	978.1	978.1	978.1	878.7	862.3	872.7	889.1	898.0	872.7	852.0	852.0
42.5°	1196.3	1197.8	1175.5	998.9	929.1	947.0	964.8	984.1	970.7	955.9	952.9
45°	1421.9	1414.5	1411.5	1175.5	1047.9	1039.0	1061.2	1093.9	1098.3	1089.4	1095.4
47.5°	1576.3	1583.7	1588.1	1395.2	1214.1	1153.3	1174.0	1220.1	1246.8	1245.3	1254.2
50°	1726.2	1730.6	1735.1	1637.1	1433.8	1297.2	1310.6	1372.9	1410.0	1421.9	1427.8
52.5°	1856.8	1844.9	1864.2	1850.9	1666.8	1462.0	1462.0	1533.2	1600.0	1604.5	1603.0
55°	1895.4	1902.8	1960.7	2000.8	1905.8	1663.8	1634.2	1709.9	1781.1	1818.2	1818.2
57.5°	1981.5	1988.9	2058.7	2149.2	2079.4	1862.7	1818.2	1892.4	1969.6	2040.8	2051.2
60°	2094.3	2095.8	2170.0	2308.0	2211.5	2042.3	2005.2	2089.8	2167.0	2288.7	2322.9
62.5°	2155.1	2161.1	2263.5	2444.6	2377.8	2199.7	2190.8	2267.9	2367.4	2581.1	2612.3
65°	2061.6	2100.2	2322.9	2526.2	2512.8	2346.6	2377.8	2440.1	2554.4	2867.6	2897.3
67.5°	1784.1	1827.1	2224.9	2603.4	2630.1	2484.6	2517.3	2607.8	2734.0	3084.3	3042.7
70°	1643.1	1678.7	1987.4	2646.4	2728.1	2639.0	2653.8	2738.4	2775.5	2903.2	2858.7
72.5°	1245.3	1282.4	1681.7	2499.5	2812.7	2800.8	2763.7	2693.9	2474.2	2284.3	2175.9
75°	550.7	593.7	1119.1	1953.3	2603.4	2892.8	2696.9	2306.5	1776.6	1297.2	1202.2
77.5°	243.4	268.6	433.4	1085.0	1956.2	2503.9	2132.9	1537.7	892.0	482.4	448.2
80°	78.7	81.6	136.6	380.0	1000.4	1657.9	1306.1	739.2	274.6	112.8	105.4
82.5°	31.2	34.1	65.3	160.3	414.1	659.0	641.2	267.2	80.1	29.7	29.7
85°	8.9	10.4	32.7	84.6	146.9	185.5	227.1	89.1	43.0	8.9	8.9
87.5°	3.0	3.0	11.9	26.7	28.2	19.3	43.0	34.1	26.7	3.0	3.0
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°	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7	547.7
2.5°	544.7	541.8	534.3	528.4	525.4	521.0	515.0	512.1	512.1	510.6	506.1
5°	534.3	529.9	516.5	507.6	500.2	483.9	472.0	457.1	442.3	437.9	442.3
7.5°	529.9	521.0	503.2	485.4	454.2	411.1	382.9	351.8	341.4	328.0	329.5
10°	531.4	521.0	495.7	455.7	394.8	331.0	286.5	244.9	224.1	213.7	215.2
12.5°	535.8	523.9	488.3	415.6	328.0	250.8	182.6	149.9	144.0	144.0	144.0
15°	544.7	526.9	476.4	368.1	256.8	166.2	129.1	126.2	130.6	135.1	136.6
17.5°	553.6	535.8	458.6	319.1	187.0	124.7	120.2	120.2	124.7	129.1	130.6
20°	564.0	544.7	433.4	267.2	133.6	117.3	115.8	114.3	117.3	121.7	123.2
22.5°	580.3	553.6	403.7	206.3	115.8	112.8	109.8	108.4	109.8	114.3	115.8
25°	595.2	565.5	372.5	152.9	108.4	105.4	103.9	102.4	102.4	105.4	106.9
27.5°	613.0	578.9	338.4	114.3	99.4	98.0	96.5	95.0	93.5	96.5	98.0
30°	635.3	590.7	301.3	96.5	90.5	89.1	87.6	86.1	84.6	86.1	87.6
32.5°	663.5	607.1	258.3	87.6	83.1	78.7	77.2	77.2	75.7	75.7	77.2
35°	700.6	624.9	212.2	81.6	75.7	71.2	66.8	65.3	65.3	65.3	66.8
37.5°	755.5	657.5	167.7	75.7	69.8	62.3	57.9	53.4	53.4	53.4	53.4
40°	831.2	693.1	130.6	71.2	65.3	54.9	49.0	43.0	40.1	38.6	40.1
42.5°	948.4	746.6	100.9	65.3	62.3	49.0	40.1	32.7	26.7	25.2	26.7
45°	1077.6	804.5	80.1	60.9	56.4	41.6	31.2	22.3	16.3	14.8	16.3
47.5°	1240.8	877.2	68.3	54.9	49.0	34.1	22.3	11.9	7.4	8.9	8.9
50°	1398.2	948.4	62.3	50.5	43.0	28.2	13.4	5.9	3.0	4.5	4.5
52.5°	1571.8	1024.1	57.9	44.5	37.1	20.8	7.4	1.5	0.0	1.5	1.5
55°	1747.0	1092.4	53.4	40.1	29.7	14.8	3.0	0.0	0.0	0.0	1.5
57.5°	1936.9	1150.3	49.0	34.1	22.3	8.9	1.5	0.0	0.0	0.0	0.0
60°	2095.8	1194.8	44.5	29.7	14.8	4.5	0.0	0.0	0.0	0.0	0.0
62.5°	2241.2	1234.9	34.1	22.3	8.9	3.0	0.0	0.0	0.0	0.0	0.0
65°	2337.7	1243.8	23.7	14.8	5.9	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	2294.7	1166.6	14.8	10.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0
70°	2017.1	979.6	10.4	5.9	1.5	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1411.5	632.3	8.9	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	745.1	228.6	5.9	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	264.2	50.5	3.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0
80°	57.9	10.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.3	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)