

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: LUMARK

Report Number: P381310

Luminaire Tested: **PRV-PA2A-730-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381310
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-730-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES 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: 10262 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

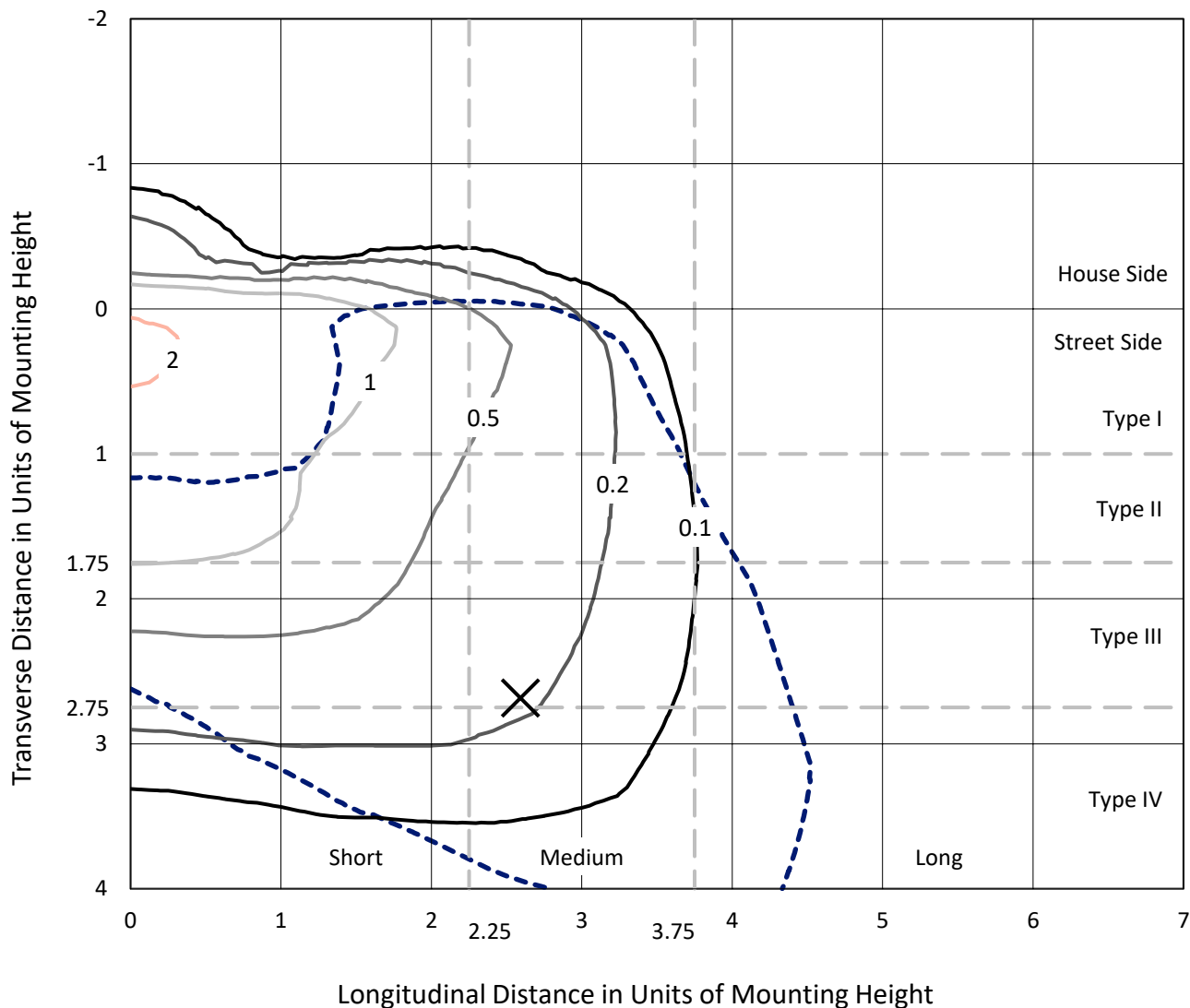
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

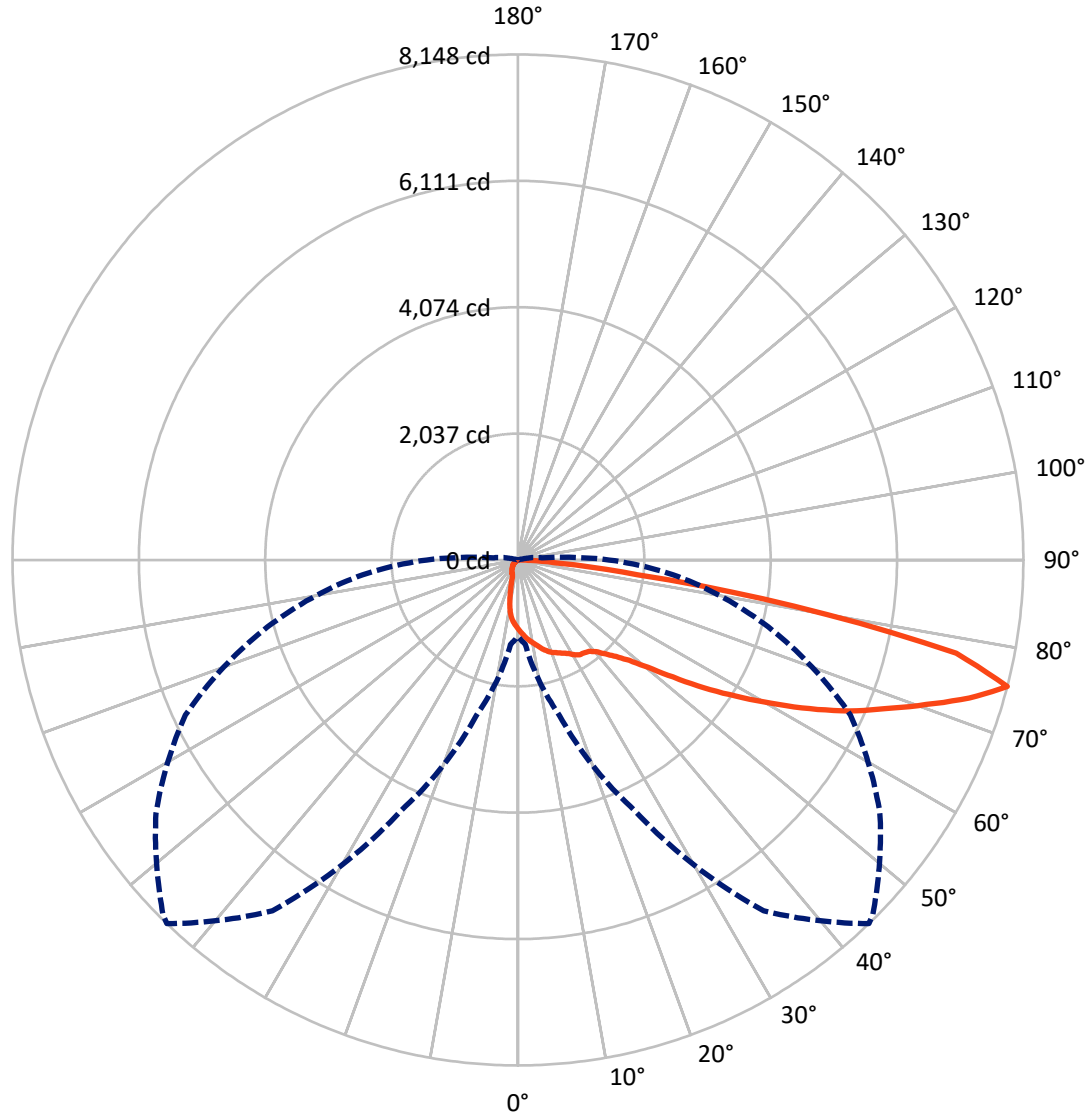
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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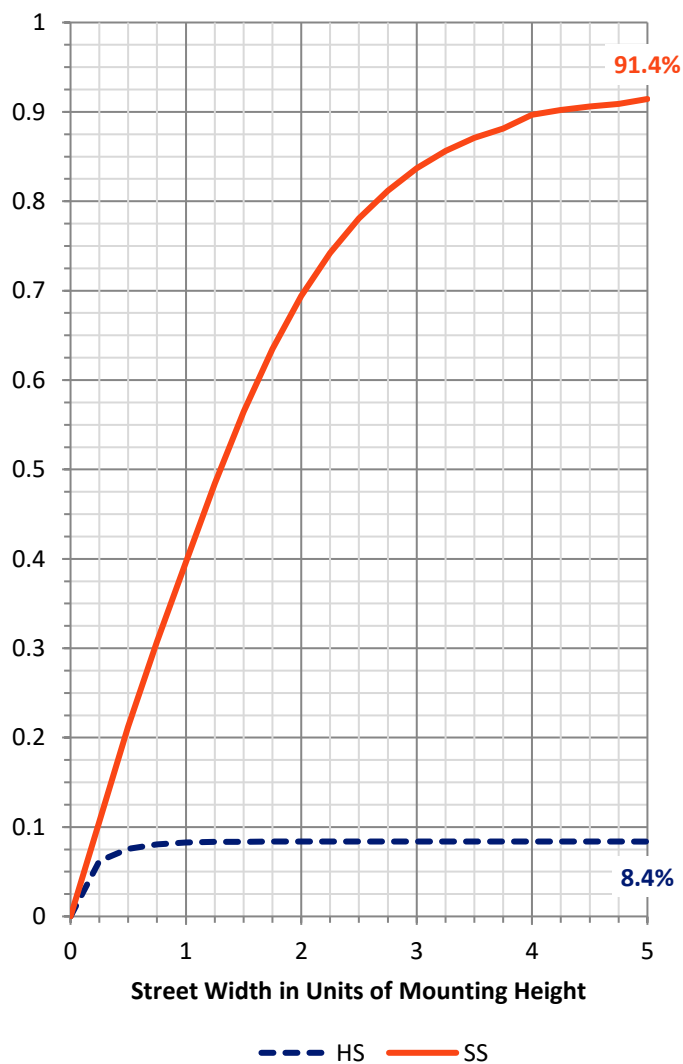
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	865.4	0.0	865.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9396.6	0.0	9396.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	10262.0	0.0	10262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.0
10°-20°	295.2	2.9
20°-30°	487.1	4.7
30°-40°	707.0	6.9
40°-50°	1149.3	11.2
50°-60°	2026.1	19.7
60°-70°	2911.9	28.4
70°-80°	2331.7	22.7
80°-90°	248.4	2.4
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°	10262.0	100.0
0°-180°	10262.0	100.0

Coefficient of Utilization



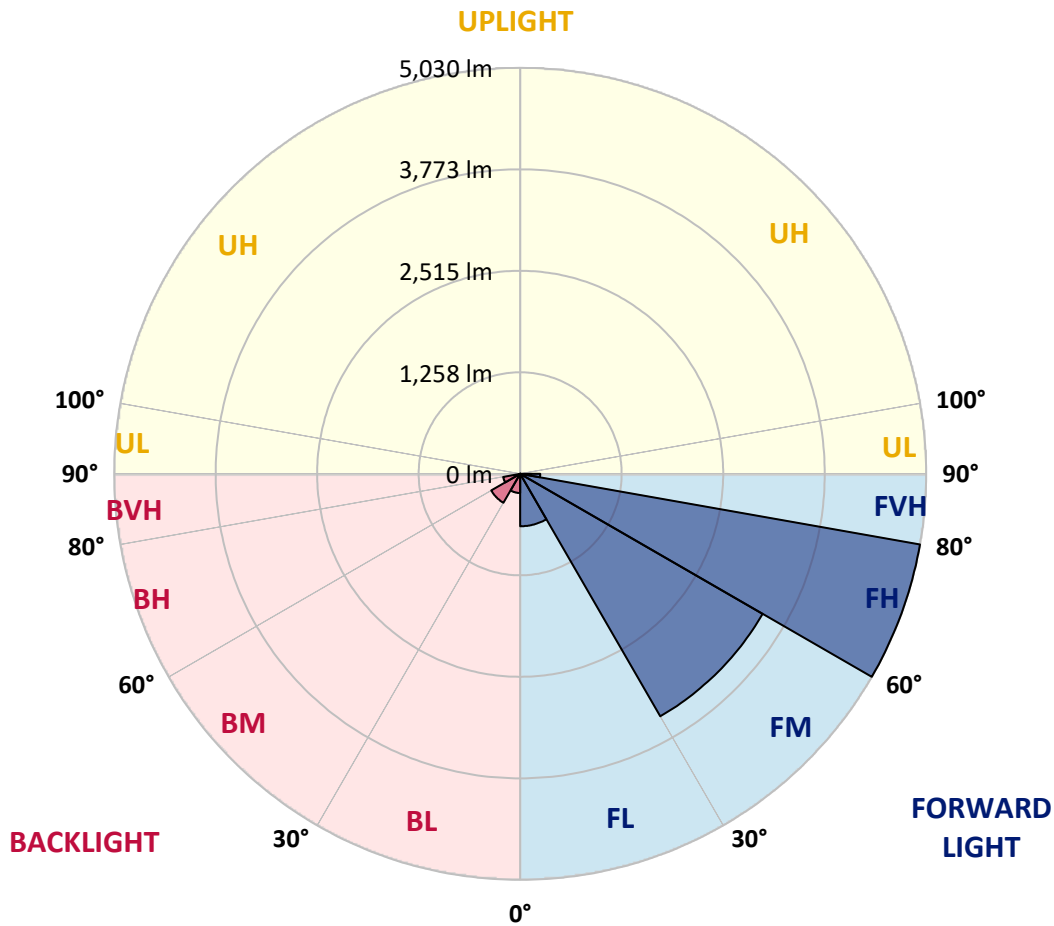
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.9	6.3			
FM (30°-60°)	3468.7	33.8			
FH (60°-80°)	5030.3	49.0			G3/7500
FVH (80°-90°)	247.8	2.4			G3/500
BL (0°-30°)	237.8	2.3	B1/500		
BM (30°-60°)	413.7	4.0	B1/1000		
BH (60°-80°)	213.3	2.1	B1/500		G1/500
BVH (80°-90°)	0.6	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0
2.5°	1217.3	1215.4	1209.7	1200.3	1190.8	1181.3	1179.5	1164.3	1147.3	1134.0	1122.7
5°	1325.2	1323.3	1313.9	1293.0	1272.2	1247.6	1245.7	1209.7	1177.6	1141.6	1111.3
7.5°	1436.9	1433.1	1416.1	1383.9	1347.9	1310.1	1306.3	1253.3	1206.0	1158.6	1115.1
10°	1524.0	1520.2	1495.6	1457.8	1408.5	1361.2	1355.5	1300.6	1253.3	1192.7	1134.0
12.5°	1609.2	1601.6	1569.5	1527.8	1467.2	1421.8	1416.1	1359.3	1302.5	1240.0	1168.1
15°	1688.7	1679.3	1649.0	1596.0	1531.6	1488.0	1484.3	1423.7	1365.0	1293.0	1213.5
17.5°	1743.6	1739.8	1703.9	1645.2	1582.7	1546.7	1542.9	1480.5	1421.8	1346.1	1260.9
20°	1772.0	1772.0	1737.9	1673.6	1616.8	1592.2	1586.5	1527.8	1471.0	1399.1	1310.1
22.5°	1777.7	1783.4	1756.9	1686.8	1645.2	1624.4	1620.6	1569.5	1514.5	1448.3	1365.0
25°	1789.1	1789.1	1775.8	1700.1	1669.8	1664.1	1662.2	1616.8	1567.6	1501.3	1419.9
27.5°	1802.3	1802.3	1792.8	1719.0	1707.7	1705.8	1703.9	1683.0	1643.3	1565.7	1484.3
30°	1836.4	1838.3	1830.7	1756.9	1749.3	1770.1	1773.9	1762.6	1713.3	1616.8	1550.5
32.5°	1921.6	1904.5	1883.7	1783.4	1796.6	1823.1	1825.0	1802.3	1749.3	1671.7	1630.0
35°	2135.5	2035.2	1940.5	1806.1	1811.8	1838.3	1842.1	1840.2	1808.0	1741.7	1720.9
37.5°	2334.3	2192.3	2057.9	1859.1	1840.2	1868.6	1876.1	1908.3	1883.7	1838.3	1844.0
40°	2449.8	2394.9	2300.2	2004.9	1897.0	1940.5	1948.1	1997.3	1987.8	1968.9	2004.9
42.5°	2805.7	2809.5	2707.3	2222.6	2001.1	2071.1	2080.6	2120.4	2133.6	2143.1	2230.2
45°	3218.4	3231.7	3207.1	2614.5	2198.0	2220.7	2234.0	2287.0	2336.2	2396.8	2555.8
47.5°	3714.4	3703.1	3612.2	3093.5	2540.7	2413.8	2423.3	2525.5	2610.7	2743.2	2970.4
50°	4153.7	4182.0	4009.8	3540.3	3023.4	2718.6	2709.1	2809.5	2962.8	3148.4	3434.2
52.5°	4596.7	4555.0	4322.1	3983.3	3595.2	3133.2	3104.8	3159.7	3375.6	3595.2	3888.6
55°	4714.0	4717.8	4638.3	4467.9	4072.2	3636.8	3589.5	3585.7	3854.5	4004.1	4365.7
57.5°	4945.0	4954.5	4973.4	5007.5	4820.1	4140.4	4091.2	4038.2	4299.4	4386.5	4844.7
60°	5179.8	5191.1	5306.6	5490.2	5365.3	4683.7	4630.7	4505.8	4651.6	4768.9	5348.3
62.5°	5149.5	5229.0	5564.1	5929.5	5914.3	5280.1	5213.8	4912.8	5005.6	5107.8	5810.2
65°	4649.7	4734.9	5488.3	6050.6	6465.2	5868.9	5761.0	5333.1	5338.8	5461.8	6255.1
67.5°	4202.9	4295.6	5015.0	5999.5	6828.7	6397.1	6285.4	5755.3	5666.3	5870.8	6493.6
70°	3945.4	4038.2	4638.3	5840.5	6931.0	6982.1	6885.5	6238.0	6056.3	6243.7	6226.7
72.5°	3087.8	3233.6	4157.4	5537.6	7040.8	7608.7	7533.0	6849.5	6387.6	5853.7	4740.5
75°	1230.6	1365.0	2595.6	4456.6	6902.6	8148.3	8089.6	7124.1	5912.4	4180.2	2427.1
77.5°	371.1	397.6	721.3	2203.7	5060.5	7224.4	7205.5	5990.0	4183.9	1940.5	662.6
80°	123.1	136.3	221.5	607.7	2309.7	4513.4	4598.5	3816.7	1900.8	444.9	134.4
82.5°	51.1	56.8	111.7	244.2	817.9	1944.3	1915.9	1709.5	662.6	276.4	49.2
85°	13.3	17.0	51.1	140.1	299.1	670.2	704.3	573.6	374.9	229.1	15.1
87.5°	0.0	0.0	24.6	56.8	134.4	202.6	212.0	174.2	212.0	172.3	7.6
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°	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0
2.5°	1113.2	1103.7	1086.7	1075.3	1060.2	1056.4	1048.8	1039.4	1037.5	1028.0	1029.9
5°	1094.3	1079.1	1048.8	1028.0	1003.4	995.8	982.6	973.1	965.5	952.3	954.2
7.5°	1090.5	1067.8	1026.1	986.3	946.6	918.2	878.4	846.3	819.7	791.4	797.0
10°	1103.7	1075.3	1016.6	961.7	889.8	798.9	694.8	626.6	592.6	558.5	562.3
12.5°	1130.2	1096.2	1020.4	937.1	791.4	636.1	492.2	399.5	374.9	359.7	361.6
15°	1170.0	1128.3	1031.8	889.8	658.8	460.0	327.5	287.8	297.2	302.9	302.9
17.5°	1211.6	1164.3	1041.3	804.6	509.3	321.8	266.9	263.2	276.4	289.7	289.7
20°	1262.8	1202.2	1043.1	696.7	367.3	261.3	251.8	251.8	261.3	276.4	276.4
22.5°	1312.0	1243.8	1026.1	573.6	280.2	242.3	242.3	242.3	248.0	263.2	265.0
25°	1370.7	1294.9	990.1	443.0	240.4	231.0	231.0	232.9	236.6	249.9	251.8
27.5°	1433.1	1347.9	929.6	323.7	219.6	217.7	219.6	221.5	223.4	236.6	240.4
30°	1505.1	1406.6	851.9	242.3	200.7	200.7	206.4	210.1	210.1	221.5	225.3
32.5°	1588.4	1484.3	759.2	200.7	181.7	179.9	189.3	195.0	195.0	204.5	208.3
35°	1692.5	1563.8	647.5	178.0	166.6	162.8	166.6	176.1	179.9	187.4	189.3
37.5°	1830.7	1658.4	528.2	164.7	155.2	147.7	147.7	149.6	157.1	164.7	166.6
40°	2006.8	1762.6	410.8	155.2	143.9	136.3	130.6	128.7	126.8	132.5	136.3
42.5°	2228.3	1879.9	306.7	145.8	134.4	123.1	115.5	107.9	98.4	96.6	98.4
45°	2512.3	2023.8	227.2	138.2	128.7	111.7	98.4	85.2	68.2	62.5	64.4
47.5°	2847.4	2173.4	178.0	130.6	125.0	98.4	81.4	58.7	41.7	37.9	39.8
50°	3203.3	2317.3	151.5	121.2	117.4	85.2	58.7	36.0	24.6	24.6	26.5
52.5°	3506.2	2398.7	138.2	113.6	106.0	70.0	37.9	20.8	15.1	15.1	17.0
55°	3799.6	2442.2	128.7	106.0	90.9	49.2	20.8	13.3	9.5	9.5	9.5
57.5°	4102.5	2461.1	117.4	96.6	71.9	30.3	11.4	7.6	5.7	5.7	5.7
60°	4371.4	2425.2	100.3	79.5	47.3	15.1	5.7	5.7	3.8	1.9	1.9
62.5°	4596.7	2357.0	70.0	56.8	28.4	7.6	3.8	1.9	0.0	0.0	0.0
65°	4734.9	2247.2	45.4	37.9	17.0	5.7	1.9	0.0	0.0	0.0	0.0
67.5°	4695.1	2040.9	28.4	24.6	7.6	3.8	1.9	0.0	0.0	0.0	0.0
70°	4237.0	1673.6	20.8	15.1	5.7	1.9	0.0	0.0	0.0	0.0	0.0
72.5°	3053.7	1132.1	15.1	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	1469.1	403.2	9.5	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	359.7	89.0	5.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	79.5	17.0	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.5	7.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	1.9	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)