

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: P882887

Luminaire Tested: **NAV-SB3A-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10624 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

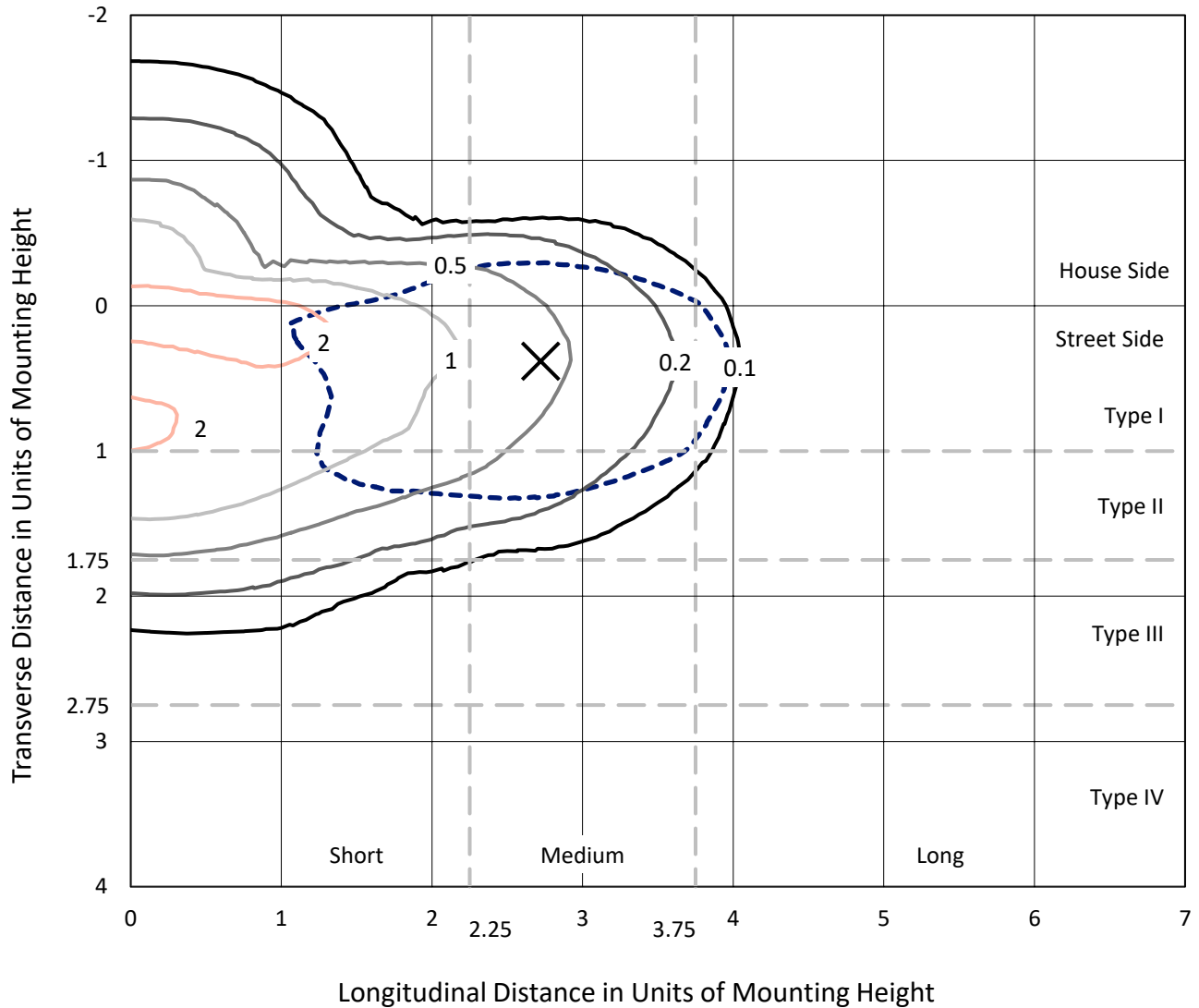
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

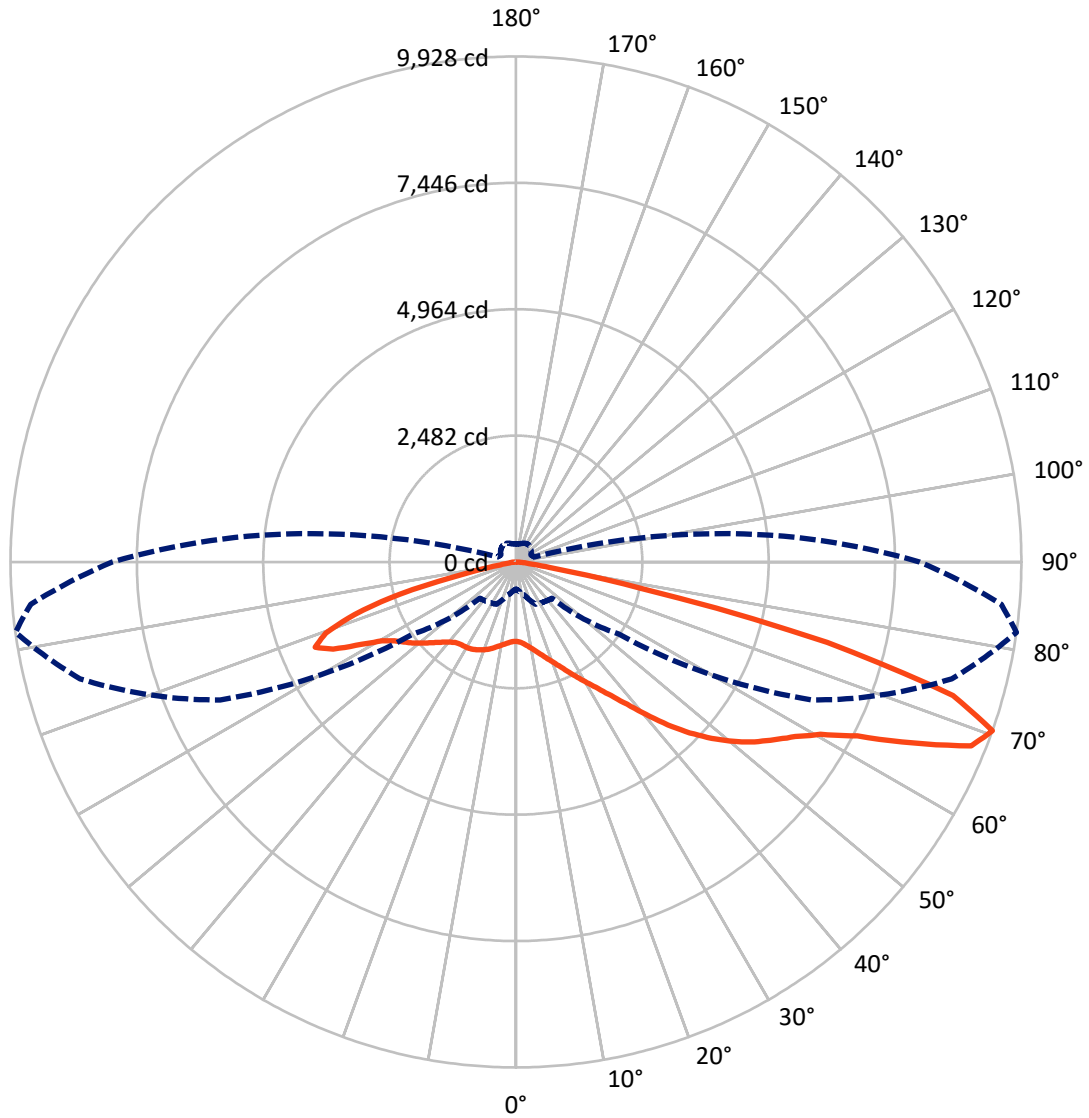
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2619.1	0.0	2619.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	8004.9	0.0	8004.9
	% Fixture	75.3	0.0	75.3
Total	Lumens	10624.0	0.0	10624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.4
10°-20°	422.5	4.0
20°-30°	706.9	6.7
30°-40°	1104.3	10.4
40°-50°	1758.7	16.6
50°-60°	2447.4	23.0
60°-70°	2560.1	24.1
70°-80°	1338.1	12.6
80°-90°	138.9	1.3
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°	10624.0	100.0
0°-180°	10624.0	100.0

Coefficient of Utilization



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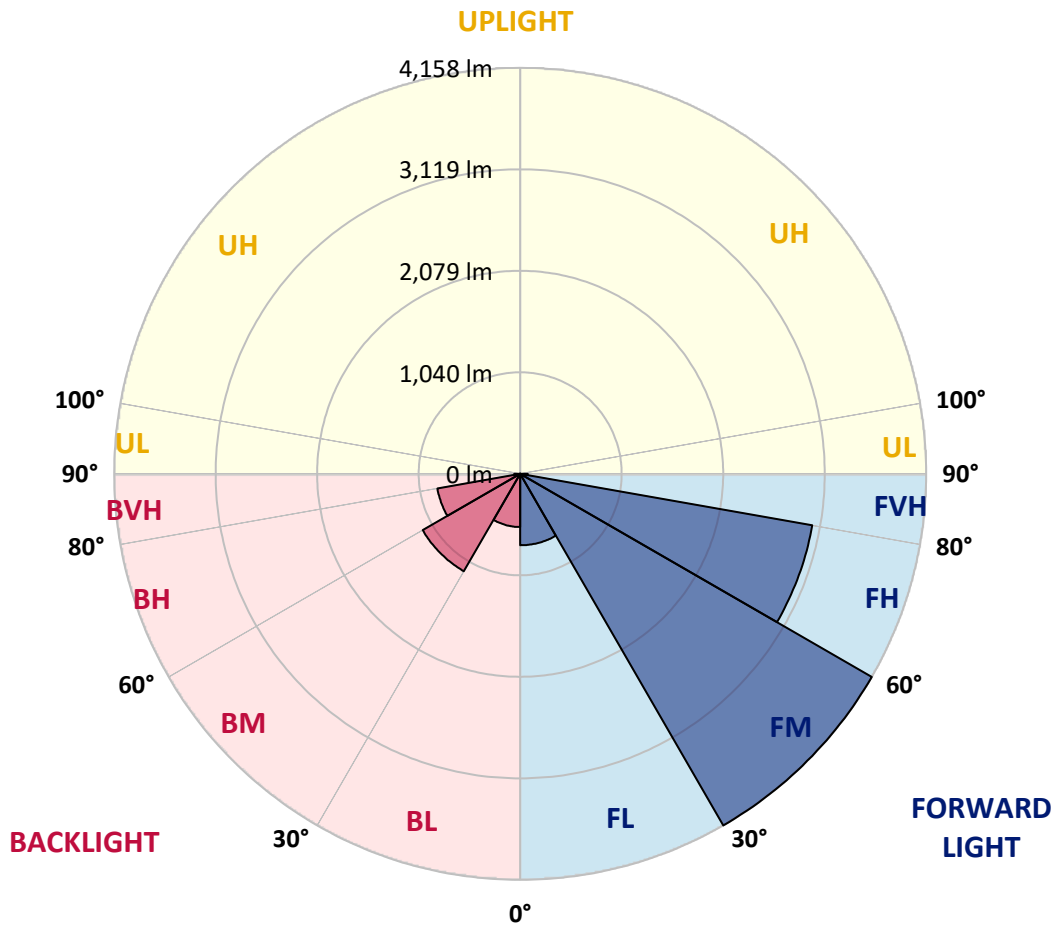
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.6	6.9			
FM	(30°-60°)	4158.1	39.1			
FH	(60°-80°)	3037.4	28.6			G2/5000
FVH	(80°-90°)	77.8	0.7			G1/100
BL	(0°-30°)	544.9	5.1	B2/1000		
BM	(30°-60°)	1152.3	10.8	B2/2500		
BH	(60°-80°)	860.8	8.1	B2/1000		G2/1000
BVH	(80°-90°)	61.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6
2.5°	1594.8	1603.8	1601.0	1598.2	1598.2	1594.3	1593.7	1588.1	1583.5	1576.2	1574.5
5°	1615.1	1624.7	1623.6	1625.8	1633.2	1634.8	1636.5	1633.2	1624.1	1615.1	1611.2
7.5°	1597.1	1607.8	1611.2	1624.7	1647.2	1667.5	1682.8	1689.0	1680.5	1667.5	1661.3
10°	1536.2	1548.0	1559.9	1592.0	1632.0	1679.9	1720.5	1744.8	1743.1	1730.7	1720.0
12.5°	1412.7	1425.1	1450.5	1513.1	1586.4	1670.9	1746.5	1797.2	1814.7	1805.7	1787.1
15°	1314.1	1324.8	1344.0	1408.2	1503.5	1632.0	1756.0	1854.7	1899.2	1894.2	1871.6
17.5°	1311.3	1315.8	1327.6	1358.0	1431.3	1571.1	1745.9	1911.1	1996.2	1995.6	1967.4
20°	1360.9	1362.6	1369.3	1375.5	1417.2	1524.9	1720.0	1957.9	2105.0	2105.0	2074.6
22.5°	1429.6	1428.5	1435.3	1429.6	1449.9	1521.0	1703.6	1999.0	2226.2	2235.2	2196.9
25°	1532.8	1527.2	1525.5	1512.5	1516.5	1557.6	1721.7	2045.8	2370.0	2388.6	2340.6
27.5°	1670.4	1661.3	1655.1	1625.3	1615.1	1633.2	1776.9	2102.2	2530.1	2562.2	2501.3
30°	1849.6	1833.3	1824.3	1772.4	1735.8	1738.6	1860.3	2177.2	2697.5	2749.4	2672.1
32.5°	2094.3	2068.9	2044.7	1959.6	1892.5	1870.5	1968.0	2280.9	2879.0	2961.9	2862.7
35°	2368.3	2348.0	2322.0	2190.7	2087.5	2036.8	2113.5	2425.8	3091.5	3222.9	3093.8
37.5°	2632.1	2614.6	2627.0	2450.0	2317.0	2243.1	2304.0	2620.3	3353.7	3547.6	3383.6
40°	2904.9	2891.4	2893.1	2724.0	2569.0	2486.1	2535.1	2864.4	3654.2	3933.8	3732.0
42.5°	3201.5	3191.3	3157.5	3007.5	2833.4	2756.1	2801.2	3146.2	3976.6	4373.5	4114.2
45°	3533.5	3527.3	3495.7	3323.8	3124.2	3037.4	3098.3	3457.4	4300.8	4787.3	4498.1
47.5°	3820.5	3825.5	3821.6	3676.7	3469.8	3342.4	3415.1	3782.1	4602.4	5176.3	4866.2
50°	3958.6	3985.1	4024.0	3978.9	3850.3	3720.7	3734.8	4095.6	4889.9	5541.0	5219.1
52.5°	3886.4	3936.6	4042.6	4114.7	4164.3	4137.3	4099.5	4406.7	5160.5	5870.2	5552.8
55°	3617.5	3688.0	3863.9	4038.1	4291.2	4487.9	4537.5	4751.8	5424.3	6160.0	5868.5
57.5°	3127.6	3242.1	3399.9	3752.2	4178.4	4657.6	5048.3	5230.4	5703.9	6469.5	6198.9
60°	2287.7	2441.0	2637.2	3161.4	3783.8	4566.9	5482.9	5965.5	6101.3	6870.3	6629.0
62.5°	1464.0	1558.7	1739.1	2233.0	2948.4	4101.8	5616.0	6884.4	6775.0	7527.6	7273.9
65°	1002.3	1063.2	1228.4	1505.7	1906.0	3053.2	5259.7	7573.3	7845.0	8569.4	8376.6
67.5°	728.4	774.6	915.5	1158.5	1241.9	1806.8	4081.5	7541.7	8885.1	9642.8	9342.8
70°	531.0	563.7	682.1	915.5	955.5	1005.1	2472.6	6410.8	8862.5	9928.0	9568.9
72.5°	393.5	416.0	495.5	710.3	773.5	678.7	1223.9	4659.3	7615.6	8979.8	8691.7
75°	284.7	301.6	360.2	543.4	619.0	516.9	610.5	2722.9	5312.1	6316.7	6367.4
77.5°	217.6	230.6	268.9	398.0	495.5	387.9	378.8	1252.6	2518.8	2531.2	2673.3
80°	174.8	183.2	204.1	280.2	380.0	290.3	246.9	505.7	796.0	673.7	706.9
82.5°	128.5	142.6	172.5	196.7	271.7	200.1	150.5	255.4	302.7	260.4	262.7
85°	73.3	82.9	104.3	140.9	173.6	122.3	86.3	113.3	140.9	115.6	103.2
87.5°	25.9	33.8	36.6	55.2	75.5	50.7	33.3	32.7	46.2	34.4	28.8
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°	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6	1557.6
2.5°	1568.9	1566.1	1554.8	1539.6	1523.8	1508.6	1503.5	1492.8	1485.5	1481.5	1486.0
5°	1600.5	1591.4	1564.9	1531.1	1495.6	1457.3	1430.2	1405.4	1387.4	1370.4	1377.2
7.5°	1645.6	1629.8	1584.1	1524.9	1461.8	1398.1	1350.7	1314.6	1290.4	1274.6	1278.0
10°	1698.0	1673.7	1603.8	1515.3	1417.8	1326.5	1270.7	1239.7	1224.4	1216.0	1218.2
12.5°	1758.3	1723.9	1624.1	1493.3	1350.7	1246.4	1208.1	1199.1	1199.6	1200.2	1201.3
15°	1832.7	1784.8	1640.5	1445.4	1263.3	1185.0	1178.2	1192.9	1208.1	1215.4	1214.9
17.5°	1916.7	1849.1	1643.3	1366.5	1177.7	1145.5	1166.9	1198.5	1221.6	1231.8	1234.0
20°	2006.9	1914.5	1623.0	1254.9	1107.2	1113.4	1151.7	1192.3	1217.7	1230.6	1234.0
22.5°	2110.1	1984.4	1574.5	1137.6	1049.7	1078.4	1123.5	1163.0	1189.5	1202.5	1205.8
25°	2227.9	2062.7	1498.4	1039.0	1000.1	1039.0	1084.1	1116.8	1138.2	1150.0	1153.4
27.5°	2358.7	2144.5	1396.9	960.6	956.7	998.4	1035.6	1061.0	1072.2	1081.3	1084.6
30°	2490.0	2218.9	1274.1	901.4	918.9	958.4	984.9	996.1	999.5	1001.2	1005.1
32.5°	2632.1	2283.1	1145.0	852.4	882.8	919.5	935.2	940.3	924.5	913.8	917.2
35°	2804.0	2351.9	1018.7	813.5	847.3	878.9	883.9	879.4	860.8	838.8	840.0
37.5°	3016.6	2437.6	917.8	785.9	814.0	834.9	828.7	827.6	829.3	803.3	805.0
40°	3277.0	2549.2	843.9	764.4	787.0	791.5	774.0	783.6	792.1	752.6	753.7
42.5°	3566.2	2684.0	797.1	749.8	764.4	753.7	726.7	737.4	736.2	684.4	683.8
45°	3861.0	2830.5	780.8	739.1	743.6	722.1	692.3	695.1	671.4	624.6	626.3
47.5°	4154.2	2987.8	790.9	730.0	717.6	693.4	670.3	657.9	622.9	588.0	588.0
50°	4441.7	3153.0	828.1	712.0	682.1	668.0	651.1	629.1	591.9	562.0	559.8
52.5°	4708.3	3319.3	869.8	682.1	637.6	646.0	635.3	610.0	573.3	542.9	543.4
55°	4960.9	3485.6	886.2	641.0	595.9	626.9	620.7	573.9	529.9	505.1	502.9
57.5°	5236.0	3685.7	868.2	588.5	562.0	604.9	581.2	529.4	504.0	485.4	483.7
60°	5617.1	3999.7	829.3	523.7	529.9	572.2	531.6	510.2	482.6	461.7	460.6
62.5°	6250.2	4585.5	766.7	459.4	492.1	523.7	507.9	486.5	458.3	438.0	438.0
65°	7186.0	5399.5	648.9	409.3	449.9	476.4	482.6	461.1	431.8	410.4	411.5
67.5°	7975.2	5910.2	491.0	367.6	406.5	438.0	455.5	434.6	403.6	382.8	383.3
70°	7931.8	5539.3	374.9	326.4	368.1	400.3	422.8	406.5	373.2	353.5	355.2
72.5°	7045.0	4633.9	303.3	284.7	329.2	360.8	387.9	375.5	341.6	322.5	322.5
75°	5175.7	3289.4	242.4	242.4	280.7	319.6	349.5	341.6	310.6	297.1	293.1
77.5°	2181.7	1380.0	190.0	201.3	233.4	274.5	311.7	314.6	287.5	304.4	276.2
80°	580.1	380.5	144.9	158.4	183.2	226.6	271.2	270.0	240.7	224.9	209.1
82.5°	221.0	150.0	103.2	111.6	132.5	173.6	214.8	221.5	192.2	166.3	166.3
85°	85.1	64.3	63.7	67.1	77.2	115.0	162.4	168.0	144.9	122.9	126.8
87.5°	22.0	19.2	23.7	22.5	35.5	61.4	93.0	96.4	88.5	51.3	73.3
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)